

PREHOMOGENEOUS SPACES ASSOCIATED WITH NILPOTENT ORBITS IN TYPE EVIII

STEVEN GLENN JACKSON AND ALFRED G. NOËL

Nilpotent orbits in type EVIII				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
1.		1	28	$(0, 0, 0, 0, 0, 1, -1, 0)$
		2	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
2.		1	32	$(0, 0, 1, -1, 0, 0, 0, 1)$
		2	8	$(0, 0, 0, 0, 0, 0, 1, 0)$
3.		1	27	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		2	15	$(0, 0, 0, 0, 0, 1, -1, 0)$
		3	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
4.		2	32	$(0, 0, 0, 0, 0, 0, 1, 0)$
5.		2	28	$(0, 0, 0, 0, 0, 1, -1, 0)$
		4	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
6.		1	28	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		2	16	$(0, 0, 0, 1, -1, 0, 0, 1)$
		3	4	$(0, 0, 0, 0, 0, 0, 1, 0)$
7.		1	22	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		2	21	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		3	6	$(0, 0, 0, 0, 0, 0, 1, 0)$
8.		1	22	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		2	17	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		3	6	$(0, 0, 0, 0, 0, 1, -1, 0)$
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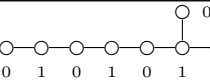
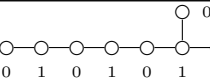
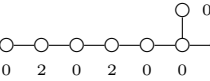
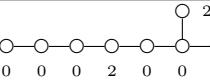
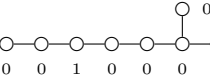
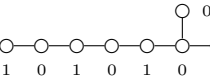
2000 *Mathematics Subject Classification.* 17B05;17B10;17B20;22E30.

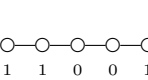
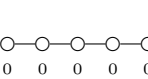
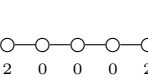
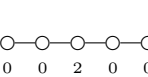
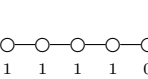
Key words and phrases. Lie group, nilpotent orbit, prehomogeneous space.

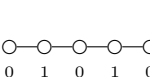
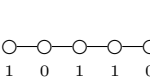
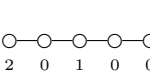
Nilpotent orbits in type EVIII (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{p}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{p}_C$
9.		4	1	$(0, 0, 0, 0, 0, 1, 0)$
		1	24	$(0, 1, 0, -1, 0, 0, 1, 0)$
		2	24	$(0, 0, 1, -1, 0, 0, 0, 1)$
10.		3	8	$(0, 0, 0, 0, 0, 0, 1, 0)$
		1	24	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$
		2	16	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		3	8	$(0, 0, 0, 0, 1, -1, 0, 1)$
11.		4	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
		1	16	$(0, 0, 1, -1, 1, 0, -1, 0)$
		2	7	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		3	16	$(0, 0, 1, -1, 0, 0, 0, 1)$
		4	6	$(0, 0, 0, 0, 0, 1, -1, 0)$
12.		6	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
		1	21	$(0, 0, 1, 0, 0, 0, 0, -1)$
		2	35	$(0, 0, 0, 0, 1, 0, 0, -1)$
13.		3	7	$(0, 0, 0, 0, 0, 0, 1, 0)$
		1	21	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		2	19	$(0, 0, 1, -1, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		3	7	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
14.		4	4	$(0, 0, 0, 0, 0, 0, 1, 0)$
		2	64	$(0, 0, 0, 0, 0, 0, 1, 0)$
15.		2	36	$(0, 0, 0, 0, 1, 0, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		4	7	$(0, 0, 0, 0, 0, 0, 1, 0)$
16.		2	32	$(0, 0, 1, -1, 0, 0, 0, 1)$
		4	8	$(0, 0, 0, 0, 0, 0, 1, 0)$
17.		1	18	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$
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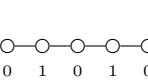
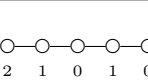
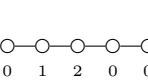
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		2	17	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		3	9	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		4	6	$(0, 0, 0, 0, 0, 1, -1, 0)$
		5	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
18.		1	17	$(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		2	14	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		3	10	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		4	8	$(0, 0, 0, 0, 1, -1, 0, 1)$
		5	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		6	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
19.		2	27	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		4	15	$(0, 0, 0, 0, 0, 1, -1, 0)$
		6	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
20.		2	30	$(0, 0, 0, 1, 0, -1, 1, 0)$
		4	12	$(0, 0, 0, 0, 1, -1, 0, 1)$
		6	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
21.		2	16	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		4	12	$(1, -1, 0, 0, 0, 0, 0, 1)$
		6	15	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
22.		1	20	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		2	16	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		3	10	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		4	6	$(0, 0, 0, 0, 1, -1, 0, 1)$
		5	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
23.		1	18	$(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		2	15	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
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Nilpotent orbits in type EVIII (continued)					
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	
		3	11	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$	
		4	6	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$	
		5	3	$(0, 0, 0, 0, 0, 1, -1, 0)$	
		6	1	$(0, 0, 0, 0, 0, 0, 1, 0)$	
		24.	1	16	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		2	16	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$	
		3	9	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$	
		4	9	$(0, 0, 0, 1, -1, 0, 0, 1)$	
		5	3	$(0, 0, 0, 0, 0, 1, -1, 0)$	
		6	1	$(0, 0, 0, 0, 0, 0, 1, 0)$	
		25.	1	16	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$
		2	19	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$	
		3	9	$(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$	
		4	6	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$	
		5	3	$(0, 0, 0, 0, 1, -1, 0, 1)$	
		6	2	$(0, 0, 0, 0, 0, 0, 1, 0)$	
		1	16	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$	
		2	15	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$	
		3	12	$(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$	
		4	8	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$	
		5	4	$(0, 0, 0, 0, 0, 1, -1, 0)$	
		6	1	$(0, 0, 0, 0, 0, 0, 1, 0)$	
27.	1	16	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$		
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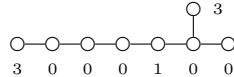
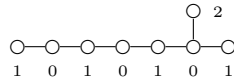
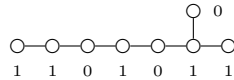
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		2	21	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		3	12	$(0, 0, 0, 1, -1, 1, 0, -1)$
		4	2	$(0, 0, 0, 0, 1, 0, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		5	4	$(0, 0, 0, 1, -1, 0, 0, 1)$
		6	3	$(0, 0, 0, 0, 0, 0, 1, 0)$
28.		1	16	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$
		2	14	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$
		3	12	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		4	6	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		5	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		6	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
29.		2	24	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		4	16	$(0, 0, 1, -1, 0, 0, 0, 1)$
		6	8	$(0, 0, 0, 0, 0, 0, 1, 0)$
30.		2	22	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		4	17	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		6	6	$(0, 0, 0, 0, 0, 1, -1, 0)$
		8	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
31.		1	15	$(1, 0, -1, 0, 0, 0, 1, 0)$
		2	30	$(0, 1, -1, 0, 0, 1, 0, -1)$
		3	10	$(0, 0, 0, 0, 1, 0, 0, -1)$
		5	3	$(0, 1, -1, 0, 0, 0, 0, 1)$
		6	5	$(0, 0, 0, 0, 0, 0, 1, 0)$
32.		1	15	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		2	16	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		3	10	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		4	8	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
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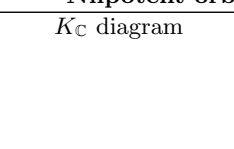
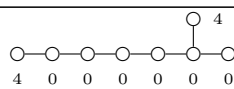
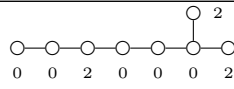
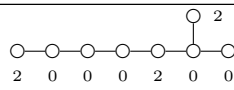
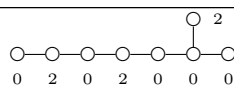
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		5	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		6	3	$(0, 0, 0, 0, 0, 0, 1, 0)$
33.		1	13	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$
		2	11	$(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	6	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		4	6	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		5	6	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		6	9	$(0, 0, 0, 1, -1, 0, 0, 1)$
		7	3	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
34.		2	56	$(0, 0, 0, 0, 1, 0, 0, -1)$
		6	8	$(0, 0, 0, 0, 0, 0, 1, 0)$
35.		2	28	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		4	16	$(0, 0, 0, 1, -1, 0, 0, 1)$
		6	4	$(0, 0, 0, 0, 0, 0, 1, 0)$
36.		2	31	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$
		4	13	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		6	5	$(0, 0, 0, 0, 0, 0, 1, 0)$
37.		1	13	$(0, 1, 0, 0, 0, 0, -1, 0)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		2	15	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		3	9	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		4	8	$(0, 0, 1, -1, 1, 0, -1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$
		5	5	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		6	6	$(0, 0, 0, 0, 0, 1, -1, 0)$
(continued on next page)				

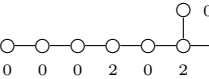
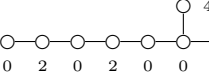
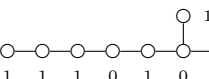
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i 7	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$ 1	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$ (0, 0, 0, 0, 0, 0, 1, 0)
38.		1	13	(1, -1, 1, -1, 0, 1, -1, 0) (1, -1, 0, 1, 0, -1, 0, 1) (0, 1, 0, -1, 1, -1, 0, 1) (0, -1, 0, 0, 0, 0, 1, 0)
		2	13	(1, -1, 1, -1, 0, 0, 1, 0) (0, 1, 0, -1, 0, 1, -1, 0) (1, -1, 0, 0, 1, 0, -1, 0) (0, 0, 1, 0, 0, -1, 0, 1)
		3	9	(0, 1, 0, -1, 0, 0, 1, 0) (1, -1, 0, 0, 1, -1, 1, 0) (0, 0, 1, -1, 1, 0, -1, 0)
		4	9	(1, -1, 0, 0, 0, 0, 0, 1) (0, 0, 1, -1, 1, -1, 1, 0) (0, 0, 0, 1, 0, 0, -1, 0)
		5	5	(0, 0, 0, 1, 0, -1, 1, 0) (0, 0, 1, -1, 0, 0, 0, 1)
		6	4	(0, 0, 0, 0, 1, -1, 0, 1)
		7	1	(0, 0, 0, 0, 0, 1, -1, 0)
		8	1	(0, 0, 0, 0, 0, 0, 1, 0)
39.		1	14	(1, 0, -1, 0, 0, 0, 1, 0) (0, 1, 0, -1, 1, -1, 0, 1) (-1, 0, 1, -1, 0, 0, 1, 0) (-1, 0, 0, 1, 0, -1, 0, 1)
		2	12	(0, 1, -1, 1, 0, -1, 0, 1) (0, 1, 0, -1, 0, 0, 1, 0) (-1, 0, 0, 0, 1, -1, 1, 0)
		3	12	(0, 0, 1, 0, 0, -1, 0, 1) (0, 1, -1, 0, 1, -1, 1, 0) (-1, 0, 0, 0, 0, 0, 0, 1)
		4	8	(0, 0, 1, -1, 1, -1, 1, 0) (0, 1, -1, 0, 0, 0, 0, 1)
		5	4	(0, 0, 0, 1, 0, -1, 1, 0) (0, 0, 1, -1, 0, 0, 0, 1)
		6	4	(0, 0, 0, 0, 1, -1, 0, 1)
		7	2	(0, 0, 0, 0, 0, 0, 1, 0)
40.		1	12	(1, 0, -1, 0, 0, 1, -1, 0) (0, 1, -1, 1, 0, 0, 0, -1)
		2	15	(0, 0, 1, 0, 0, 0, 0, -1) (0, 1, -1, 0, 1, 0, -1, 0) (-1, 1, -1, 0, 0, 0, 1, 0)
		3	8	(0, 0, 0, 1, 0, 0, -1, 0) (-1, 0, 0, 0, 0, 1, 0, -1)
		4	2	(1, 0, -1, 0, 0, 0, 1, 0) (-1, 0, 0, 0, 0, 0, 0, 1)
		5	8	(0, 1, -1, 0, 0, 1, 0, -1)
		6	8	(0, 1, -1, 0, 0, 0, 0, 1) (0, 0, 0, 0, 1, 0, 0, -1)
		7	4	(0, 0, 0, 0, 0, 1, -1, 0)
(continued on next page)				

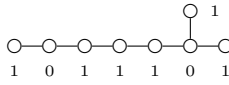
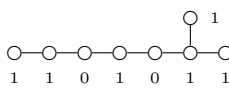
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
41.		1	12	$(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$
		2	10	$(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	8	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		4	6	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		5	8	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		6	5	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		7	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		8	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
		42.		1
2	12			$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
3	10			$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$
4	10			$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
5	6			$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
6	4			$(0, 0, 0, 0, 1, -1, 0, 1)$
7	2			$(0, 0, 0, 0, 0, 0, 1, 0)$
43.		1	14	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$
		2	18	$(0, 1, -1, 1, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$
		3	10	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		4	4	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 0, 0, 0, 1)$
		5	6	$(0, 0, 0, 1, 0, -1, 1, 0)$
		6	6	$(0, 0, 0, 0, 1, -1, 0, 1)$
		7	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
(continued on next page)				

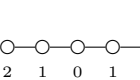
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
44.		1	14	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		2	13	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		3	10	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		4	8	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		5	6	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		6	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		7	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		8	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
45.		2	48	$(0, 1, -1, 0, 0, 0, 0, 1)$
		6	16	$(0, 0, 0, 0, 0, 0, 1, 0)$
46.		2	24	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$
		4	16	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		6	8	$(0, 0, 0, 0, 1, -1, 0, 1)$
		8	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
47.		1	9	$(1, -1, 1, -1, 0, 1, -1, 0)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		2	9	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$
		3	9	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$
		4	8	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		5	8	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		6	5	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
(continued on next page)				

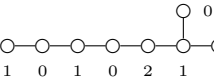
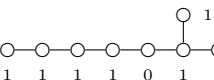
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		7	1	$(0, 0, 0, 1, 0, -1, 1, 0)$
		8	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		9	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
48.		1	12	$(0, 1, 0, 0, -1, 0, 0, 1)$
		2	22	$(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		3	7	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		5	6	$(0, 0, 1, 0, -1, 0, 1, 0)$
		6	12	$(0, 0, 0, 1, -1, 0, 0, 1)$
		7	3	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
49.		1	12	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$
		2	12	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		3	7	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		4	8	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		5	6	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	6	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		7	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		8	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
50.		1	12	$(1, -1, 1, -1, 1, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$
		2	13	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
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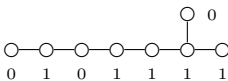
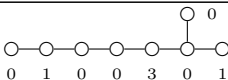
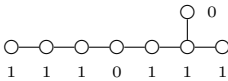
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		3	9	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		4	10	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		5	5	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		6	4	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		7	2	$(0, 0, 0, 0, 1, -1, 0, 1)$
		8	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
51.		2	42	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	21	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
52.		2	22	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, -1, 0, 1, 0, -1, 0)$
		4	16	$(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		6	9	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		8	4	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
53.		2	23	$(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		4	13	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	12	$(0, 0, 0, 1, -1, 0, 0, 1)$
		8	3	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
54.		2	18	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$
		4	17	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		6	9	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		8	6	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
55.		2	20	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$
		4	16	$(0, 0, 1, -1, 1, -1, 1, 0)$
		6	10	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		8	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		10	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
56.		2	15	$(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		4	12	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		6	10	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		8	8	$(0, 0, 1, -1, 0, 0, 0, 1)$
		10	6	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
57.		1	12	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		2	11	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		3	10	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		4	8	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		5	6	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		6	5	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		7	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		8	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		(continued on next page)		

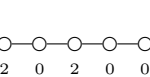
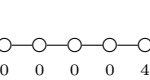
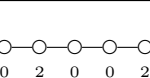
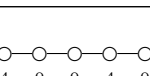
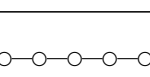
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		9	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
58.		1	11	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$
		2	10	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		3	9	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		4	8	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		5	7	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	5	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		7	3	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		8	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		9	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
59.		1	11	$(1, -1, 1, -1, 1, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		2	11	$(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		3	9	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		4	8	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		5	7	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	4	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		7	4	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		8	2	$(0, 0, 0, 0, 1, -1, 0, 1)$
		9	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
60.		1	10	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
2	9	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$		
3	10	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$		
4	8	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$		
5	6	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$		
6	6	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 1, 0, -1)$		
7	4	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$		
(continued on next page)				

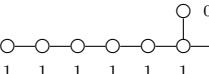
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		8	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		9	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
61.		1	10	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		2	14	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		3	10	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 1, -1, 0, 1, 0)$
		4	4	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		5	6	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	8	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		7	4	$(0, 0, 0, 1, -1, 0, 0, 1)$
		9	2	$(0, 0, 0, 0, 1, -1, 0, 1)$
		10	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
		62.		1
2	11			$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
3	8			$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
4	9			$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
5	6			$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
6	5			$(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$
(continued on next page)				

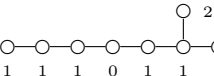
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		7	3	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		8	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		9	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		10	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
63.		1	10	$(1, -1, 1, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		2	13	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$
		3	8	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$
		4	8	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$
		5	6	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		6	6	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		7	3	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		8	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		9	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		10	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
64.		1	9	$(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		2	21	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$
		3	9	$(0, 0, 1, 0, -1, 0, 1, 0)$
		5	6	$(1, -1, 0, 0, 0, 1, 0, -1)$
		6	11	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		7	3	$(0, 0, 0, 1, -1, 0, 0, 1)$
		9	1	$(0, 0, 0, 0, 1, 0, 0, -1)$
		10	3	$(0, 0, 0, 0, 0, 0, 1, 0)$
65.		1	9	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		2	11	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		3	9	$(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		4	8	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		5	6	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	6	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		7	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		8	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		9	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		10	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
66.		1	9	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$
		2	10	$(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	6	$(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		4	6	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		5	5	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		6	6	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		7	4	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		8	4	$(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$
		9	3	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		10	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		11	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
67.		2	20	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		4	16	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	10	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		8	6	$(0, 0, 0, 0, 1, -1, 0, 1)$
		10	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
68.		2	40	$(0, 0, 1, 0, -1, 0, 1, 0)$
		6	20	$(0, 0, 0, 1, -1, 0, 0, 1)$
		10	4	$(0, 0, 0, 0, 0, 0, 1, 0)$
69.		2	22	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$
		4	15	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, -1, 0, 1, 0)$
		6	11	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		8	4	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		10	3	$(0, 0, 0, 0, 0, 0, 1, 0)$
70.		2	32	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		6	24	$(0, 0, 1, -1, 0, 0, 0, 1)$
		10	8	$(0, 0, 0, 0, 0, 0, 1, 0)$
71.		2	16	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$
		4	14	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$
(continued on next page)				

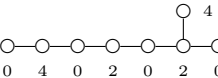
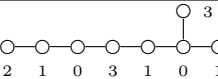
Nilpotent orbits in type EVIII (continued)						
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$		
		6	12	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$		
		8	6	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$		
		10	4	$(0, 0, 0, 0, 1, -1, 0, 1)$		
		12	2	$(0, 0, 0, 0, 0, 0, 1, 0)$		
72.		1	8	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$		
		2	9	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$		
		3	8	$(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$		
		4	6	$(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$		
		5	6	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$		
		6	4	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$		
		7	4	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, -1, 0, 1, 0)$		
		8	5	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$		
		9	4	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$		
		10	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$		
		11	2	$(0, 0, 0, 0, 0, 1, -1, 0)$		
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$		
		73.		1	8	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$
				2	12	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
3	8			$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$		
(continued on next page)						

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		4	2	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, -1, 0, 1, 0, -1, 0)$
		5	6	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$
		6	8	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		7	4	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$
		8	2	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$
		9	4	$(0, 0, 0, 1, -1, 1, 0, -1)$
		10	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		11	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
74.		1	8	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$
		2	9	$(1, -1, 1, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$
		3	7	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		4	8	$(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		5	6	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		6	6	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		7	4	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		8	4	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		9	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		10	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		11	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		12	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
75.		1	8	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$
		2	9	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	7	$(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		4	7	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		5	5	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		6	6	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		7	4	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		8	4	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		9	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		10	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		11	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		12	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
76.		1	8	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$
2	17	$(0, 1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$		
3	7	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$		
5	5	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$		
6	11	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$		
7	4	$(0, 1, -1, 0, 0, 0, 0, 1)$		
9	3	$(0, 0, 0, 1, 0, -1, 1, 0)$		
10	6	$(0, 0, 0, 0, 1, -1, 0, 1)$		
11	1	$(0, 0, 0, 0, 0, 1, -1, 0)$		
14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$		
77.		2	14	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$
4	12	$(0, 1, 0, -1, 1, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$		
6	10	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 0, 0, 0, 1)$		
8	8	$(0, 0, 1, -1, 1, -1, 1, 0)$		
10	6	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$		
12	4	$(0, 0, 0, 0, 1, -1, 0, 1)$		
14	2	$(0, 0, 0, 0, 0, 0, 1, 0)$		
78.		2	13	$(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
4	13	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$		
6	9	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$		
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		8	9	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		10	5	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		12	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		14	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		16	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
79.		2	17	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		4	14	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$
		6	10	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		8	8	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		10	4	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		12	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
80.		2	33	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$
		6	20	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$
		10	10	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
81.		2	18	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		4	12	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		6	11	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		8	7	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		10	6	$(0, 0, 0, 0, 1, -1, 0, 1)$
		12	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
(continued on next page)				

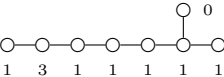
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
82.		2	10	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		4	8	$(0, 1, 0, -1, 1, -1, 0, 1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$
		6	9	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$
		8	8	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		10	6	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		12	4	$(0, 0, 1, -1, 1, -1, 1, 0)$
		14	5	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		16	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		18	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		22	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
83.		1	6	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$
		2	8	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	6	$(0, 1, 0, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		4	2	$(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$
		5	6	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$
		6	7	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		7	4	$(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		8	2	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		9	4	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, -1, 0, 1, 0)$
		10	6	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		11	2	$(0, 0, 1, -1, 0, 0, 0, 1)$
		(continued on next page)		

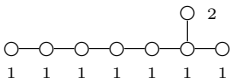
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		13	2	$(0, 0, 0, 1, -1, 1, 0, -1)$
		14	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		15	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		18	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
84.		1	8	$(1, 0, 0, -1, 0, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		2	11	$(1, -1, 1, -1, 1, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		3	7	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		4	4	$(1, -1, 1, -1, 0, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$
		5	6	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		6	8	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		7	5	$(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		8	2	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		9	3	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		10	4	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		11	2	$(0, 0, 0, 0, 1, -1, 0, 1)$
		13	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
85.		1	8	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$

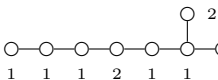
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Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		2	8	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		3	7	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		4	7	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		5	6	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		6	5	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		7	5	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		8	4	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		9	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		10	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		11	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		12	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		(continued on next page)		

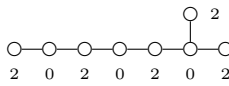
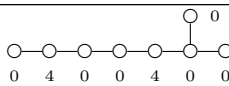
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		13	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		14	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
86.	<pre>graph LR; n1((1)) --- n2((2)) --- n3((1)) --- n4((1)) --- n5((1)) --- n6((1)) --- n7((1)); n6 --- n8((1))</pre>	1	7	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$
		2	7	$(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		3	7	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		4	6	$(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		5	6	$(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		6	5	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		7	5	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		8	4	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
(continued on next page)				

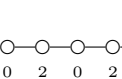
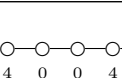
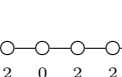
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		9	3	$(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		10	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		11	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		12	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		13	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		14	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		15	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
87.		1	7	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$
	2	9	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$	
	3	6	$(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$	
	4	6	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$	
	5	5	$(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$	
	6	6	$(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$	
	7	4	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$	
	8	4	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$	
	9	3	$(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$	
(continued on next page)				

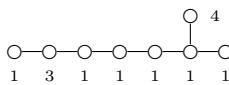
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		10	4	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		11	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		12	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		13	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		14	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
88.		1	7	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$
	2	8	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$	
	3	6	$(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$	
	4	7	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$	
	5	5	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$	
		6	5	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		7	4	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		8	5	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		9	3	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		10	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		11	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		12	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		13	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		14	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		16	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
89.		1	6	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$
		2	7	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	5	$(1, -1, 0, 1, 0, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		4	6	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
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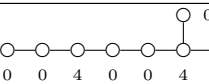
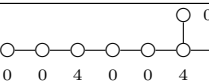
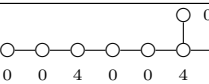
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		5	5	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$
		6	5	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		7	4	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		8	4	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		9	4	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		10	4	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		11	2	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		12	2	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		13	1	$(0, 0, 0, 1, -1, 1, 0, -1)$
		14	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		15	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		16	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		18	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
90.		1	6	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, 0, -1, 0, 1, -1, 0, 1)$
		2	13	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		3	5	$(0, 1, 0, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		5	5	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$
(continued on next page)				

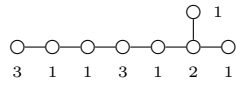
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		6	10	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		7	4	$(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		9	4	$(0, 1, -1, 0, 1, -1, 1, 0)$
		10	7	$(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$
		11	2	$(0, 0, 1, -1, 0, 0, 0, 1)$
		13	1	$(0, 0, 0, 1, 0, -1, 1, 0)$
		14	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		15	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		18	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
		91.		2
4	13			$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
6	10			$(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
8	8			$(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
10	6			$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
12	3			$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
14	2			$(0, 0, 0, 0, 0, 1, -1, 0)$
16	1			$(0, 0, 0, 0, 0, 0, 1, 0)$
92.				2
		6	20	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		10	12	$(0, 0, 0, 1, -1, 0, 0, 1)$
		14	4	$(0, 0, 0, 0, 0, 0, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
93.		2	13	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		4	12	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$
		6	9	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$
		8	8	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		10	7	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		12	4	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		14	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		16	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		18	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
94.		2	25	$(0, 1, 0, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		6	19	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		10	13	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		14	6	$(0, 0, 0, 0, 0, 1, -1, 0)$
		18	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
95.		2	14	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		4	10	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		6	10	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		8	8	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		10	7	$(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$
		12	3	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		14	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		16	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		18	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
96.		1	6	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$
		2	7	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	4	$(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$
		4	4	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$
		5	4	$(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		6	5	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		7	4	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		8	4	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		(continued on next page)		

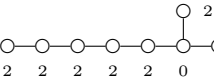
Nilpotent orbits in type EVIII (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{p}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{p}_C$
		9	3	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		10	4	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		11	2	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		12	2	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$
		13	2	$(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		14	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		15	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		16	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		17	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		18	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		22	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
97.		1	5	$(1, 0, -1, 0, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$
		2	11	$(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	5	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$
		5	4	$(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		6	9	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		7	4	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$
		9	3	$(0, 1, -1, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		10	7	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
(continued on next page)				

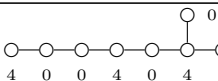
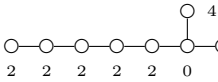
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		11	2	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$
		13	2	$(0, 1, -1, 0, 0, 1, 0, -1)$
		14	5	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		15	2	$(0, 0, 0, 1, -1, 0, 0, 1)$
		17	1	$(0, 0, 0, 0, 1, 0, 0, -1)$
		18	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		22	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
98.		2	24	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$
		6	20	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$
		10	12	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		14	6	$(0, 0, 0, 0, 1, -1, 0, 1)$
		18	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
99.		2	12	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		4	11	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		6	10	$(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		8	8	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		10	6	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		12	5	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		14	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		16	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		18	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
(continued on next page)				

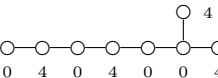
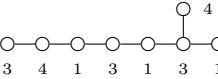
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
100.		1	5	$(1, 0, -1, 1, -1, 0, 0, 1)$ $(1, 0, -1, 0, 1, 0, 0, -1)$ $(1, -1, 1, 0, -1, 1, 0, -1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		2	7	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$
		3	5	$(1, -1, 1, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$
		4	2	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(0, 1, 0, -1, 1, -1, 0, 1)$
		5	4	$(1, -1, 0, 1, 0, 0, 0, -1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$
		6	6	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		7	4	$(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		8	2	$(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$
		9	4	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		10	5	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		11	3	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		12	2	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		13	2	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$
		14	3	$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		15	2	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		17	1	$(0, 0, 0, 1, -1, 1, 0, -1)$
		18	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		19	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		21	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		22	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
101.		2	12	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		4	9	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		6	9	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		8	7	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		10	7	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		12	4	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$
		14	5	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		16	3	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		18	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		22	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
102.		2	22	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{p}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{p}_C$
		6	17	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$
		10	12	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		14	9	$(0, 0, 0, 1, -1, 0, 0, 1)$
		18	3	$(0, 0, 0, 0, 0, 1, -1, 0)$
		22	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
103.		1	4	$(1, 0, -1, 1, -1, 0, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$ $(-1, 0, 1, 0, -1, 0, 0, 1)$
		2	9	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	4	$(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$
		5	4	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		6	8	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		7	3	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$
		9	3	$(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		10	7	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		11	3	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		13	2	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		14	5	$(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		15	2	$(0, 0, 1, -1, 0, 1, 0, -1)$
		17	1	$(0, 1, -1, 0, 0, 0, 0, 1)$
(continued on next page)				

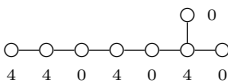
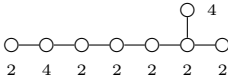
Nilpotent orbits in type EVIII (continued)					
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	
		18	3	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$	
		19	1	$(0, 0, 0, 0, 1, 0, 0, -1)$	
		21	1	$(0, 0, 0, 1, -1, 0, 0, 1)$	
		22	2	$(0, 0, 0, 0, 0, 1, -1, 0)$	
		26	1	$(0, 0, 0, 0, 0, 0, 1, 0)$	
		104.	2	10	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$
			4	9	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
6	8		$(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$		
8	8		$(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$		
10	7		$(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$		
12	5		$(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$		
14	4		$(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$		
16	3		$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$		
18	2		$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$		
20	2		$(0, 0, 0, 0, 0, 1, -1, 0)$		
(continued on next page)					

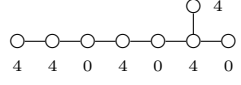
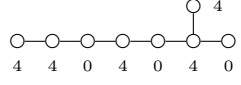
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i 22	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$ 1	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$ (0, 0, 0, 0, 0, 0, 1, 0)
105.		2	20	(0, 1, 0, -1, 1, -1, 0, 1) (-1, 0, 1, -1, 0, 0, 1, 0) (-1, 0, 0, 1, 0, -1, 0, 1)
		6	16	(0, 1, 0, -1, 0, 0, 1, 0) (0, 0, 1, 0, 0, -1, 0, 1) (-1, 0, 0, 0, 1, -1, 1, 0)
		10	14	(0, 0, 1, -1, 1, -1, 1, 0) (-1, 0, 0, 0, 0, 0, 0, 1)
		14	8	(0, 0, 0, 1, 0, -1, 1, 0) (0, 0, 1, -1, 0, 0, 0, 1)
		18	4	(0, 0, 0, 0, 1, -1, 0, 1)
		22	2	(0, 0, 0, 0, 0, 0, 1, 0)
106.		2	10	(1, -1, 1, 0, -1, 0, 0, 1) (1, -1, 1, -1, 1, 0, 0, -1) (0, 1, 0, 0, -1, 1, 0, -1) (1, 0, -1, 0, 0, 1, -1, 0) (-1, 0, 1, -1, 0, 1, -1, 0) (-1, 0, 0, 1, 0, 0, 0, -1) (0, -1, 0, 0, 0, 0, 1, 0)
		4	8	(0, 1, 0, 0, -1, 0, 0, 1) (1, -1, 0, 1, 0, 0, 0, -1) (0, 1, 0, -1, 1, 0, 0, -1) (1, -1, 1, -1, 0, 1, -1, 0) (-1, 0, 0, 1, -1, 1, -1, 0) (-1, 1, -1, 0, 0, 0, 1, 0)
		6	8	(1, 0, -1, 0, 0, 0, 1, 0) (0, 1, -1, 1, 0, 0, 0, -1) (1, -1, 0, 1, -1, 1, -1, 0) (0, 1, 0, -1, 0, 1, -1, 0) (-1, 0, 0, 0, 1, 0, -1, 0) (-1, 0, 1, -1, 0, 0, 1, 0)
		8	6	(1, -1, 1, -1, 0, 0, 1, 0) (0, 0, 1, 0, 0, 0, 0, -1) (1, -1, 0, 0, 1, 0, -1, 0) (0, 1, -1, 1, -1, 1, -1, 0) (-1, 0, 0, 1, -1, 0, 1, 0)
		10	7	(1, -1, 0, 1, -1, 0, 1, 0) (0, 1, 0, -1, 0, 0, 1, 0) (0, 1, -1, 0, 1, 0, -1, 0) (0, 0, 1, 0, -1, 1, -1, 0) (-1, 0, 0, 0, 0, 1, 0, -1)
		12	5	(0, 1, -1, 1, -1, 0, 1, 0) (1, -1, 0, 0, 0, 1, 0, -1) (0, 0, 1, -1, 1, 0, -1, 0) (-1, 0, 0, 0, 0, 0, 0, 1)
		14	5	(0, 0, 1, 0, -1, 0, 1, 0) (1, -1, 0, 0, 0, 0, 0, 1) (0, 1, -1, 0, 0, 1, 0, -1) (0, 0, 0, 1, 0, 0, -1, 0)
		(continued on next page)		

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		16	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		18	3	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		20	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		22	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		26	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
107.		2	18	$(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		6	15	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$
		10	13	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
		14	9	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		18	5	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		22	3	$(0, 0, 0, 0, 0, 1, -1, 0)$
		26	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
108.		1	3	$(1, 0, -1, 1, -1, 0, 0, 1)$ $(1, 0, -1, 0, 1, 0, 0, -1)$ $(1, -1, 1, 0, -1, 1, 0, -1)$
		2	7	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		3	3	$(1, -1, 1, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$
		5	3	$(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, 0, 0, -1)$
		6	6	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
(continued on next page)				

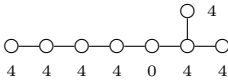
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		7	3	$(0, 1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		9	3	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$
		10	6	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		11	2	$(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		13	2	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$
		14	5	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		15	2	$(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		17	2	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$
		18	4	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		19	1	$(0, 0, 1, -1, 1, -1, 1, 0)$
		21	1	$(0, 1, -1, 0, 0, 1, 0, -1)$
		22	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		23	1	$(0, 0, 1, -1, 0, 0, 0, 1)$
		25	1	$(0, 0, 0, 1, -1, 1, 0, -1)$
		26	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		27	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		30	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		34	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
109.		2	8	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
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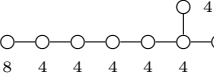
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		4	8	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		6	7	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		8	7	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		10	6	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		12	5	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		14	5	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		16	4	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		18	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		20	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		22	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		24	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		26	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		28	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
110.		2	16	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$
		6	14	$(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(1, -1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		10	12	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		14	10	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		18	6	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		22	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		26	2	$(0, 0, 0, 0, 0, 0, 1, 0)$
111.		2	8	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		4	6	$(0, 1, 0, 0, -1, 1, 0, -1)$ $(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$
		6	6	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		8	6	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		10	6	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		12	4	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		14	5	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		16	4	$(0, 1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		18	4	$(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		20	2	$(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$
		22	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		24	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		26	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		28	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		30	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		34	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
112.		2	14	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		6	12	$(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		10	11	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		14	9	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		18	7	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		22	5	$(0, 0, 0, 1, 0, -1, 1, 0)$ $(0, 0, 1, -1, 0, 0, 0, 1)$
		26	4	$(0, 0, 0, 0, 1, -1, 0, 1)$
		30	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		34	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
113.		2	12	$(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		6	11	$(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		10	10	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		14	9	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		18	7	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		22	6	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 0, 0, 1, 0, 0, -1, 0)$ $(0, 0, 1, -1, 0, 1, 0, -1)$
		26	4	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		30	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		34	2	$(0, 0, 0, 0, 0, 1, -1, 0)$
		38	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
114.		2	10	$(0, 1, 0, 0, 0, -1, 1, 0)$ $(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		6	9	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		10	9	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		14	8	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		18	7	$(0, 1, 0, -1, 0, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		22	6	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		26	5	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		30	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		34	3	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		38	2	$(0, 0, 0, 0, 1, -1, 0, 1)$
		42	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		46	1	$(0, 0, 0, 0, 0, 0, 1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
115.		2	8	$(1, 0, -1, 1, -1, 0, 0, 1)$ $(1, 0, -1, 0, 1, 0, 0, -1)$ $(1, -1, 1, 0, -1, 1, 0, -1)$ $(0, 1, 0, 0, 0, -1, 1, 0)$ $(-1, 0, 0, 1, 0, 0, 0, -1)$ $(-1, 0, 1, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, -1, 0)$ $(0, -1, 0, 0, 0, 0, 1, 0)$
		6	7	$(1, 0, -1, 0, 1, -1, 0, 1)$ $(1, -1, 1, 0, -1, 0, 0, 1)$ $(1, -1, 1, -1, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, -1, 0)$ $(-1, 1, -1, 0, 0, 0, 1, 0)$
		10	7	$(1, 0, -1, 0, 0, 1, -1, 0)$ $(1, -1, 1, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 0, 0, 1)$ $(1, -1, 0, 1, 0, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, 0, -1)$ $(-1, 0, 0, 1, -1, 1, -1, 0)$ $(-1, 0, 1, -1, 0, 0, 1, 0)$
		14	7	$(1, 0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 0, 1, -1, 0)$ $(1, -1, 0, 1, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, -1, 0, 1)$ $(0, 1, -1, 1, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, 0, -1, 0)$ $(-1, 0, 0, 1, -1, 0, 1, 0)$
		18	6	$(1, -1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, -1, 0)$ $(0, 1, 0, -1, 0, 1, -1, 0)$ $(0, 1, -1, 1, 0, -1, 0, 1)$ $(0, 0, 1, 0, 0, 0, 0, -1)$ $(-1, 0, 0, 0, 1, -1, 1, 0)$
		22	6	$(1, -1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, -1, 0)$ $(0, 1, -1, 1, -1, 1, -1, 0)$ $(0, 0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 0, 0, 1, 0, -1)$
		26	5	$(1, -1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, -1, 0, 1, 0)$ $(0, 1, -1, 0, 1, 0, -1, 0)$ $(0, 0, 1, 0, -1, 1, -1, 0)$ $(-1, 0, 0, 0, 0, 0, 0, 1)$
		30	4	$(1, -1, 0, 0, 0, 1, 0, -1)$ $(0, 1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, -1, 1, 0, -1, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		34	4	$(1, -1, 0, 0, 0, 0, 0, 1)$ $(0, 1, -1, 0, 0, 1, 0, -1)$ $(0, 0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 0, 1, 0, 0, -1, 0)$
		38	3	$(0, 1, -1, 0, 0, 0, 0, 1)$ $(0, 0, 1, -1, 0, 1, 0, -1)$ $(0, 0, 0, 1, 0, -1, 1, 0)$
		42	2	$(0, 0, 1, -1, 0, 0, 0, 1)$ $(0, 0, 0, 1, -1, 1, 0, -1)$
		46	2	$(0, 0, 0, 1, -1, 0, 0, 1)$ $(0, 0, 0, 0, 1, 0, 0, -1)$
		50	1	$(0, 0, 0, 0, 1, -1, 0, 1)$
		54	1	$(0, 0, 0, 0, 0, 1, -1, 0)$
		58	1	$(0, 0, 0, 0, 0, 0, 1, 0)$

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