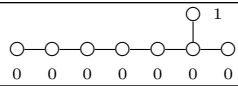
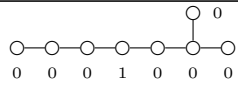
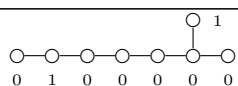
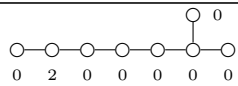
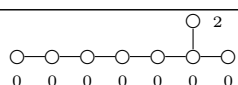
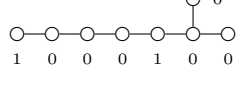
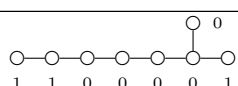
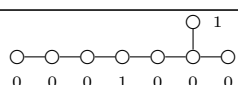


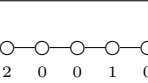
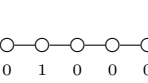
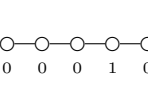
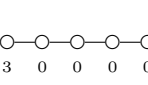
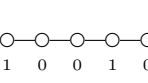
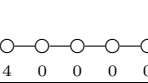
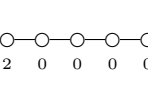
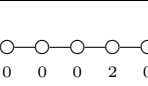
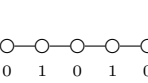
PREHOMOGENEOUS SPACES ASSOCIATED WITH NILPOTENT ORBITS IN TYPE EVIII

STEVEN GLENN JACKSON AND ALFRED G. NOËL

Nilpotent orbits in type EVIII				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
1.		1	28	$(0, 1, 0, 0, 0, 0, 0)$
2.		1	32	$(1, 0, 0, -1, 1, 0, 0)$
		2	6	$(0, 1, 0, 0, 0, 0, 0)$
3.		1	27	$(0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1)$
		2	12	$(1, -1, 1, 0, 0, 0, 0)$
		3	1	$(0, 1, 0, 0, 0, 0, 0)$
4.		2	24	$(1, -1, 1, 0, 0, 0, 0)$
		4	1	$(0, 1, 0, 0, 0, 0, 0)$
5.		2	28	$(0, 1, 0, 0, 0, 0, 0)$
6.		1	28	$(-1, 1, 0, 0, -1, 1, 0)$ $(1, 0, 0, 1, -1, 0, 0)$
		2	12	$(-1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0)$
		3	4	$(0, 1, 0, 0, 0, 0, 0)$
7.		1	22	$(-1, 1, 0, 0, 0, 0, 1)$ $(0, -1, 0, 1, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0)$
		2	12	$(-1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1)$
		3	6	$(1, -1, 1, 0, 0, 0, 0)$
		4	1	$(0, 1, 0, 0, 0, 0, 0)$
8.		1	22	$(0, 0, 0, -1, 0, 1, 0)$ $(1, 0, 0, 0, 0, 0, -1)$
		2	16	$(1, 0, 0, -1, 1, 0, 0)$
		3	6	$(0, 1, 0, 0, 0, 0, 0)$
(continued on next page)				

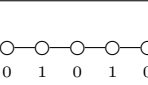
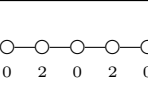
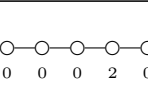
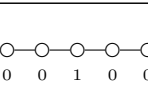
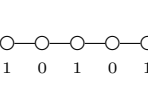
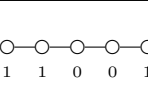
2000 *Mathematics Subject Classification.* 17B05;17B10;17B20;22E30.

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

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
9.		1	24	$(-1, 1, 0, -1, 1, 0, 0, 0)$
		2	6	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		3	8	$(1, 0, 0, -1, 1, 0, 0, 0)$
		4	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
10.		1	24	$(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		2	14	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		3	8	$(1, -1, 1, 0, 0, 0, 0, 0)$
		4	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
11.		1	16	$(1, 0, 0, 0, 0, 0, -1, 1)$
		2	6	$(0, 0, 0, -1, 0, 1, 0, 0)$
		3	16	$(1, 0, 0, -1, 1, 0, 0, 0)$
		4	6	$(0, 1, 0, 0, 0, 0, 0, 0)$
12.		1	21	$(-1, 0, 1, 0, 0, 0, 0, 0)$
		3	7	$(1, 0, 0, 0, 0, 0, 1, -1)$
		4	7	$(0, 1, 0, 0, 0, 0, 0, 0)$
13.		1	21	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		2	16	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		3	7	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		4	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
14.		4	14	$(0, 1, 0, 0, 0, 0, 0, 0)$
15.		2	28	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		4	7	$(0, 1, 0, 0, 0, 0, 0, 0)$
16.		2	32	$(1, 0, 0, -1, 1, 0, 0, 0)$
		4	6	$(0, 1, 0, 0, 0, 0, 0, 0)$
17.		1	18	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		2	16	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
(continued on next page)				

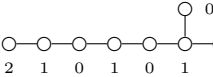
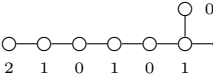
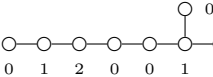
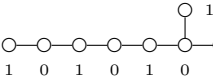
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		3	9	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		4	4	$(1, -1,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

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		4	6	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		5	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
24.	 $\begin{array}{cccccc} \circ & \circ & \circ & \circ & \circ & \circ \\ 1 & 1 & 0 & 0 & 1 & 0 \end{array}$ $\begin{array}{c} \circ \\ 1 \end{array}$	1	16	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	15	$(-1, 1, 0, 0, 0, 0, -1, 1)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		3	9	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		4	6	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		5	3	$(1, -1, 1, 0, 0, 0, 0, 0)$
		6	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
25.	 $\begin{array}{cccccc} \circ & \circ & \circ & \circ & \circ & \circ \\ 0 & 0 & 1 & 0 & 0 & 1 \end{array}$ $\begin{array}{c} \circ \\ 0 \end{array}$	1	16	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		2	12	$(0, 0, -1, 1, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		3	9	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		4	9	$(1, 0, -1, 1, 0, 0, 0, 0)$
		5	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
26.	 $\begin{array}{cccccc} \circ & \circ & \circ & \circ & \circ & \circ \\ 2 & 0 & 1 & 0 & 0 & 0 \end{array}$ $\begin{array}{c} \circ \\ 1 \end{array}$	1	16	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$
		2	12	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		3	12	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		4	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		5	4	$(1, 0, -1, 1, 0, 0, 0, 0)$
		6	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
27.	 $\begin{array}{cccccc} \circ & \circ & \circ & \circ & \circ & \circ \\ 1 & 0 & 0 & 0 & 1 & 0 \end{array}$ $\begin{array}{c} \circ \\ 0 \end{array}$	1	16	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		2	6	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		3	12	$(-1, 1, 0, 0, -1, 1, 0, 0)$
		4	9	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		5	4	$(0, 1, 0, 0, 0, 0, 0, 0)$
(continued on next page)				

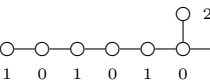
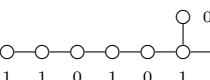
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
28.		1	16	$(0, -1, 1, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		2	13	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		3	12	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		4	5	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		5	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		6	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
29.		2	20	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	17	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		6	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		8	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
30.		2	22	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		4	16	$(1, 0, 0, -1, 1, 0, 0, 0)$
		6	6	$(0, 1, 0, 0, 0, 0, 0, 0)$
31.		1	15	$(1, 0, 0, 0, 0, 0, 1, -1)$
		3	10	$(0, 0, -1, 0, 1, 0, 0, 0)$
		4	15	$(1, 0, -1, 1, 0, 0, 0, 0)$
		5	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
32.		1	15	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		2	14	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		3	10	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		4	7	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		5	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		6	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
33.		1	13	$(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	6	$(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
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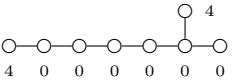
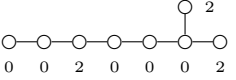
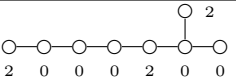
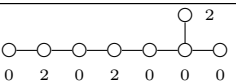
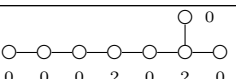
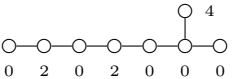
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		3	6	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		4	9	$(0, -1, 1, 0, -1, 1, 0, 0)$
		5	6	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$
		6	6	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		7	3	$(1, -1, 1, 0, 0, 0, 0, 0)$
		8	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
34.		4	28	$(0, 1, 0, 0, 0, 0, 0, 0)$
35.		2	28	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		4	12	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		6	4	$(0, 1, 0, 0, 0, 0, 0, 0)$
36.		2	25	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		4	15	$(1, 0, -1, 1, 0, 0, 0, 0)$
		6	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
37.		1	13	$(0, -1, 2, -1, 0, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	10	$(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		3	9	$(-1, 1, 0, 0, 0, 0, -1, 1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	9	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		5	5	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		6	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		7	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		8	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
38.		1	13	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
(continued on next page)				

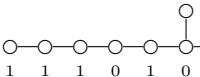
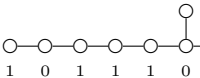
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		2	12	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		3	9	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		4	8	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		5	5	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		6	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		7	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
39.		1	14	$(0, 0, -1, 1, 1, -1, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		2	10	$(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		3	12	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		4	8	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		5	4	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		6	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		7	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
40.		1	12	$(0, 0, -1, 1, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$
		2	4	$(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		3	8	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		4	9	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		5	8	$(-1, 1, -1, 1, 0, 0, 0, 0)$
		6	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		7	4	$(1, 0, -1, 1, 0, 0, 0, 0)$
		8	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
41.		1	12	$(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		2	9	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		3	8	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		4	5	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$
		5	8	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		6	5	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		7	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		8	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
		42.		1
2	12			$(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
3	10			$(-1, 1, 0, 0, 0, -1, 1, 1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
4	5			$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
5	6			$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
6	2			$(1, 0, 0, -1, 1, 0, 0, 0)$
7	2			$(1, -1, 1, 0, 0, 0, 0, 0)$
8	1			$(0, 1, 0, 0, 0, 0, 0, 0)$
43.		1	14	$(0, 0, -1, 1, 0, -1, 1, 1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		2	6	$(0, -1, 1, 0, 1, -1, 0, 0)$ $(0, 0, -1, 0, 1, 0, 0, 0)$
		3	10	$(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		4	11	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		5	6	$(1, 0, -1, 1, 0, 0, 0, 0)$
		7	2	$(1, -1, 1, 0, 0, 0, 0, 0)$
		8	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
44.		1	14	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		2	11	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		3	10	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		4	7	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		5	6	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		6	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		7	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
		45.		4
8	3	$(0, 1, 0, 0, 0, 0, 0, 0)$		
46.		2	24	$(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		4	14	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		6	8	$(1, -1, 1, 0, 0, 0, 0, 0)$
		8	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
47.		1	9	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		2	8	$(0, -1, 1, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$
		3	9	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		4	8	$(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		5	8	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		6	4	$(1, 0, 0, -1, 1, 0, 0, 0)$
		7	1	$(0, -1, 0, 1, 0, 0, 0, 0)$
		8	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		9	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
48.		1	12	$(-1, 1, 0, 0, 0, 0, -1, 1)$
		3	7	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
(continued on next page)				

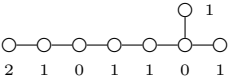
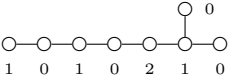
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		4	15	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		5	6	$(-1, 0, 1, 0, 0, 0, 0, 0)$
		7	3	$(1, 0, 0, 0, -1, 1, 0, 0)$
		8	4	$(0, 1, 0, 0, 0, 0, 0, 0)$
49.		1	12	$(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		2	10	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		3	7	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		4	7	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		5	6	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		6	6	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		7	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		8	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
50.		1	12	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	12	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		3	9	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		4	8	$(-1, 1, 0, 0, 0, -1, 1, 1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		5	5	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		6	4	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		7	2	$(1, -1, 1, 0, 0, 0, 0, 0)$

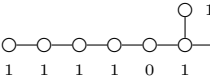
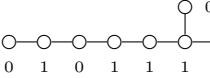
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		8	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
51.		4	28	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 0, -1, 1)$
		8	7	$(0, 1, 0, 0, 0, 0, 0, 0, 0)$
52.		2	20	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		4	12	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		6	12	$(1, 0, -1, 1, 0, 0, 0, 0)$
		8	3	$(0, 1, 0, 0, 0, 0, 0, 0, 0)$
53.		2	19	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		4	15	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		6	9	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		8	4	$(0, 1, 0, 0, 0, 0, 0, 0, 0)$
54.		2	18	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	16	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		6	9	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		8	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		10	1	$(0, 1, 0, 0, 0, 0, 0, 0, 0)$
55.		2	16	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		4	17	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		6	8	$(1, 0, 0, -1, 1, 0, 0, 0)$
		8	6	$(0, 1, 0, 0, 0, 0, 0, 0, 0)$
56.		2	12	$(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	14	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		6	8	$(0, -1, 1, -1, 1, 0, 0, 0)$
		8	9	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		10	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		12	1	$(0, 1, 0, 0, 0, 0, 0, 0, 0)$
(continued on next page)				

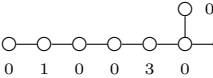
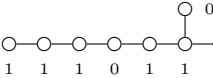
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
57.		1	12	$(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	10	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		3	10	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(0, 0, -1, 1, -1, 1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		4	7	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		5	6	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		6	4	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		7	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		8	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		9	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
58.		1	11	$(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		2	8	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		3	9	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
(continued on next page)				

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

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Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
60.		1	10	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$
		2	9	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		3	10	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	7	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		5	6	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		6	4	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		7	4	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		8	1	$(1, 0, 0, -1, 1, 0, 0, 0)$
		9	2	$(1, -1, 1, 0, 0, 0, 0, 0)$
		10	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
61.		1	10	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		2	4	$(0, 0, -1, 1, 1, -1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		3	10	$(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$
		4	11	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		5	6	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		6	2	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		7	4	$(-1, 1, -1, 1, 0, 0, 0, 0)$
		8	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i 9	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$ 2	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$ (0, 1, 0, 0, 0, 0, 0, 0)
62.		1	10	(0, 0, 0, 0, 0, -1, 2, 0) (0, -1, 2, -1, 0, 0, 0, 0) (-1, 2, -1, 0, 0, 0, 0, 0) (0, 0, -1, 1, 1, -1, 0, 0) (0, 0, 0, -1, 1, 0, -1, 1) (2, -1, 0, 0, 0, 0, 0, 0)
		2	10	(-1, 1, 1, -1, 0, 0, 0, 0) (0, -1, 1, 0, 1, -1, 0, 0) (0, 0, 0, -1, 1, -1, 1, 1) (0, 0, -1, 1, 0, 0, -1, 1) (1, 1, -1, 0, 0, 0, 0, 0)
		3	8	(-1, 1, 0, 0, 1, -1, 0, 0) (0, 0, 0, -1, 0, 1, 0, 0) (0, 0, -1, 1, 0, -1, 1, 1) (0, -1, 1, 0, 0, 0, -1, 1) (1, 0, 1, -1, 0, 0, 0, 0)
		4	8	(0, -1, 1, 0, 0, -1, 1, 1) (-1, 1, 0, 0, 0, 0, -1, 1) (0, 0, -1, 0, 1, 0, 0, 0) (1, 0, 0, 0, 1, -1, 0, 0)
		5	6	(-1, 1, 0, 0, 0, -1, 1, 1) (0, -1, 1, -1, 1, 0, 0, 0) (1, 0, 0, 0, 0, 0, -1, 1)
		6	5	(0, -1, 0, 1, 0, 0, 0, 0) (-1, 1, 0, -1, 1, 0, 0, 0) (1, 0, 0, 0, 0, -1, 1, 1)
		7	3	(-1, 1, -1, 1, 0, 0, 0, 0) (1, 0, 0, -1, 1, 0, 0, 0)
		8	2	(-1, 0, 1, 0, 0, 0, 0, 0) (1, 0, -1, 1, 0, 0, 0, 0)
		9	1	(1, -1, 1, 0, 0, 0, 0, 0)
		10	1	(0, 1, 0, 0, 0, 0, 0, 0)
63.		1	10	(0, 0, 0, 0, 0, -1, 0, 2) (0, 0, 0, -1, 2, -1, 0, 0) (0, 0, 0, 0, -1, 1, 1, -1) (0, -1, 1, 1, -1, 0, 0, 0) (1, 0, 1, -1, 0, 0, 0, 0)
		2	8	(0, 0, 0, 0, -1, 0, 1, 1) (0, 0, 0, -1, 1, 0, 1, -1) (0, -1, 1, 0, 1, -1, 0, 0) (1, 0, 0, 1, -1, 0, 0, 0)
		3	8	(0, 0, 0, -1, 1, -1, 1, 1) (0, -1, 1, 0, 0, 0, 1, -1) (1, 0, 0, 0, 1, -1, 0, 0)
		4	9	(0, 0, 0, -1, 0, 1, 0, 0) (0, -1, 1, 0, 0, -1, 1, 1) (1, 0, 0, 0, 0, 0, 1, -1)
		5	6	(0, -1, 1, 0, -1, 1, 0, 0) (1, 0, 0, 0, 0, -1, 1, 1)
(continued on next page)				

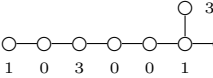
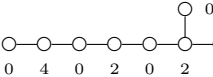
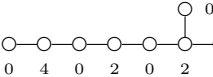
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		6	4	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		7	3	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		8	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		9	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
64.		1	9	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		3	9	$(0, -1, 1, 0, 0, 0, 1, -1)$
		4	15	$(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		5	6	$(1, 0, 0, 0, -1, 1, 0, 0)$
		7	3	$(0, -1, 0, 1, 0, 0, 0, 0)$
		8	6	$(1, -1, 1, 0, 0, 0, 0, 0)$
		9	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
65.		1	9	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	10	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		3	9	$(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		4	7	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		5	6	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		6	5	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		7	3	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		8	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		9	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		10	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
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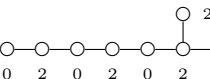
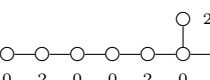
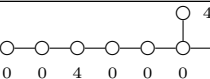
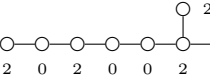
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
66.		1	9	$(0, -1, 2, -1, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0)$ $(0, 0, -1, 1, 1, -1, 0)$ $(0, 0, 0, -1, 1, 0, -1)$ $(2, -1, 0, 0, 0, 0, 0)$
		2	6	$(-1, 1, 1, -1, 0, 0, 0)$ $(0, -1, 1, 0, 1, -1, 0)$ $(0, 0, -1, 1, 0, 0, -1)$ $(1, 1, -1, 0, 0, 0, 0)$
		3	6	$(0, 0, 0, 0, 0, -1, 2)$ $(-1, 1, 0, 0, 1, -1, 0)$ $(0, -1, 1, 0, 0, 0, -1)$ $(1, 0, 1, -1, 0, 0, 0)$
		4	8	$(0, 0, 0, -1, 1, -1, 1)$ $(-1, 1, 0, 0, 0, 0, -1)$ $(1, 0, 0, 0, 1, -1, 0)$
		5	5	$(0, 0, 0, -1, 0, 1, 0)$ $(0, 0, -1, 1, 0, -1, 1)$ $(1, 0, 0, 0, 0, 0, -1)$
		6	4	$(0, -1, 1, 0, 0, -1, 1)$ $(0, 0, -1, 0, 1, 0, 0)$
		7	4	$(-1, 1, 0, 0, 0, -1, 1)$ $(0, -1, 1, -1, 1, 0, 0)$
		8	5	$(0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1)$
		9	3	$(-1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0)$
		10	2	$(-1, 0, 1, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0)$
		11	1	$(1, -1, 1, 0, 0, 0, 0)$
		12	1	$(0, 1, 0, 0, 0, 0, 0)$
67.		2	20	$(-1, 1, 0, 0, 1, -1, 0)$ $(0, 0, -1, 1, 0, -1, 1)$ $(1, 1, -1, 0, 0, 0, 0)$
		4	14	$(0, 0, -1, 0, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0)$
		6	10	$(-1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1)$
		8	4	$(-1, 0, 1, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0)$
		10	2	$(0, 1, 0, 0, 0, 0, 0)$
68.		4	30	$(1, 0, 0, 0, -1, 1, 0)$
		8	10	$(0, 1, 0, 0, 0, 0, 0)$
69.		2	18	$(0, 0, 0, 0, -1, 0, 1)$ $(0, -1, 1, 0, 0, 0, 1)$ $(1, 0, 0, 1, -1, 0, 0)$
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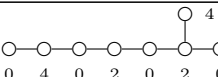
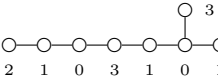
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		4	15	$(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		6	9	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		8	6	$(1, -1, 1, 0, 0, 0, 0, 0)$
		10	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
70.		4	27	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		8	11	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		12	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
71.		2	16	$(0, -1, 1, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	13	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		6	12	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		8	5	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		10	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		12	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
72.		1	8	$(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$
		2	7	$(0, 0, 0, -1, 1, 0, -1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		3	8	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	4	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		5	6	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		6	6	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		7	4	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$
(continued on next page)				

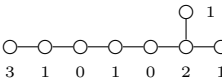
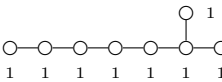
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		8	3	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		9	4	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		10	1	$(1, 0, 0, -1, 1, 0, 0, 0)$
		11	2	$(1, -1, 1, 0, 0, 0, 0, 0)$
		12	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
		73.		1
2	4	$(0, -1, 1, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$		
3	8	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$		
4	8	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$		
5	6	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$		
6	2	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$		
7	4	$(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$		
8	6	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$		
9	4	$(1, 0, -1, 1, 0, 0, 0, 0)$		
11	2	$(1, -1, 1, 0, 0, 0, 0, 0)$		
12	1	$(0, 1, 0, 0, 0, 0, 0, 0)$		
74.		1	8	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	8	$(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		3	7	$(0, -1, 1, 0, 1, -1, 0, 0)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
(continued on next page)				

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

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		5	5	$(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 0, 1, -1, -1)$
		6	5	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		7	4	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		8	4	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		9	3	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		10	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		11	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		12	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
76.		1	8	$(0, 0, -1, 1, 0, 0, -1, 1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		3	7	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$
		4	13	$(0, 0, -1, 1, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		5	5	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		7	4	$(-1, 1, 0, 0, 0, -1, 1, 1)$
		8	8	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		9	3	$(1, 0, -1, 1, 0, 0, 0, 0)$
		11	1	$(-1, 0, 1, 0, 0, 0, 0, 0)$
12	2	$(0, 1, 0, 0, 0, 0, 0, 0)$		
77.		2	12	$(0, -1, 1, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$
		4	13	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		6	8	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		8	9	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		10	4	$(1, 0, 0, -1, 1, 0, 0, 0)$
		12	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		16	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
(continued on next page)				

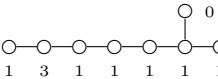
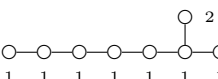
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
78.		2	13	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	12	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		6	9	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		8	8	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		10	5	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		12	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		14	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
79.		2	16	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		4	11	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		6	10	$(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		8	7	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		10	6	$(1, -1, 1, 0, 0, 0, 0, 0)$
		12	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
80.		4	25	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		8	15	$(1, 0, -1, 1, 0, 0, 0, 0)$
		12	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
81.		2	15	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		4	13	$(0, 0, -1, 1, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		6	9	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		8	8	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		10	4	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		12	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
82.		2	8	$(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$
		4	9	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		6	8	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		8	9	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		10	4	$(0, -1, 1, -1, 1, 0, 0, 0)$
		12	5	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		14	4	$(1, 0, 0, -1, 1, 0, 0, 0)$
		16	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		20	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
83.		1	6	$(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$
		2	2	$(0, 0, 0, -1, 1, 0, -1, 1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		3	6	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	7	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, -1, 1, 0, 0, 1, -1, -1)$
		5	6	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$
		6	2	$(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		7	4	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		8	6	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		9	4	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$
		10	2	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		11	2	$(1, 0, 0, 0, -1, 1, 0, 0)$
		12	2	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		13	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$
		15	2	$(1, -1, 1, 0, 0, 0, 0, 0)$
		(continued on next page)		

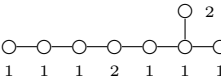
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i 16	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$ 1	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$ (0, 1, 0, 0, 0, 0, 0, 0)
84.		1	8	(0, 0, 0, 0, 0, -1, 2, 0) (0, 0, 0, 0, 0, -1, 0, 2) (-1, 1, 1, -1, 0, 0, 0, 0) (0, -1, 1, 0, 1, -1, 0, 0)
		2	4	(0, 0, 0, -1, 1, 1, -1, -1) (-1, 1, 0, 0, 1, -1, 0, 0)
		3	7	(0, 0, 0, -1, 1, 0, 1, -1) (0, 0, 0, -1, 1, 0, -1, 1) (0, -1, 1, 0, 0, 1, -1, -1) (2, -1, 0, 0, 0, 0, 0, 0)
		4	9	(0, 0, 0, -1, 1, -1, 1, 1) (0, -1, 1, 0, 0, 0, 1, -1) (0, -1, 1, 0, 0, 0, -1, 1) (-1, 1, 0, 0, 0, 1, -1, -1) (1, 0, 1, -1, 0, 0, 0, 0)
		5	6	(0, -1, 1, 0, 0, -1, 1, 1) (-1, 1, 0, 0, 0, 0, 1, -1) (-1, 1, 0, 0, 0, 0, -1, 1) (1, 0, 0, 0, 1, -1, 0, 0)
		6	2	(0, 0, 0, -1, 0, 1, 0, 0) (-1, 1, 0, 0, 0, -1, 1, 1)
		7	5	(0, -1, 1, -1, 1, 0, 0, 0) (1, 0, 0, 0, 0, 1, -1, -1)
		8	5	(0, -1, 0, 1, 0, 0, 0, 0) (-1, 1, 0, -1, 1, 0, 0, 0) (1, 0, 0, 0, 0, 0, 1, -1) (1, 0, 0, 0, 0, 0, -1, 1)
		9	3	(-1, 0, 1, 0, 0, 0, 0, 0) (1, 0, 0, 0, 0, -1, 1, 1)
		11	2	(1, 0, 0, -1, 1, 0, 0, 0)
		12	2	(1, -1, 1, 0, 0, 0, 0, 0)
		13	1	(0, 1, 0, 0, 0, 0, 0, 0)
85.		1	8	(0, 0, 0, 0, 0, -1, 2, 0) (0, 0, 0, 0, 0, -1, 0, 2) (0, 0, 0, 0, -1, 2, -1, -1) (0, 0, 0, -1, 2, -1, 0, 0) (0, 0, -1, 2, -1, 0, 0, 0) (0, -1, 2, -1, 0, 0, 0, 0) (-1, 2, -1, 0, 0, 0, 0, 0) (2, -1, 0, 0, 0, 0, 0, 0)
		2	7	(0, 0, 0, 0, -1, 1, 1, -1) (0, 0, 0, 0, -1, 1, -1, 1) (0, 0, 0, -1, 1, 1, -1, -1) (0, 0, -1, 1, 1, -1, 0, 0) (0, -1, 1, 1, -1, 0, 0, 0) (-1, 1, 1, -1, 0, 0, 0, 0) (1, 1, -1, 0, 0, 0, 0, 0)
(continued on next page)				

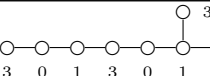
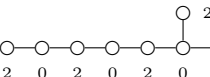
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		3	7	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	6	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		5	6	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		6	5	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		7	5	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		8	3	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		9	3	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		10	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		11	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		12	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		13	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
86.		1	7	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, 0, -1, 2, -1, -1)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
(continued on next page)				

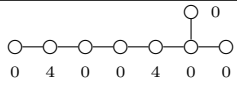
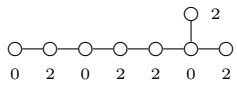
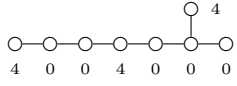
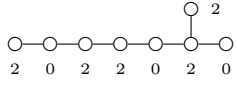
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1,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

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
87.		1	7	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	6	$(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$
		3	6	$(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$
		4	7	$(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		5	5	$(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, -1, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		6	4	$(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		7	4	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		8	5	$(-1, 1, 0, 0, 0, -1, 1, 1)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		9	3	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		10	2	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		11	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		12	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		13	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		16	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
88.		1	7	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, 0, -1, 2, -1, -1)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
(continued on next page)				

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

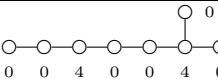
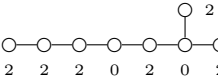
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
89.		1	6	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, 0, -1, 2, -1, -1)$ $(0, 0,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

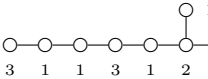
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		12	2	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		13	1	$(-1, 1, -1, 1, 0, 0, 0, 0)$
		14	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		15	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		16	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
90.		1	6	$(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$
		3	5	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, -1, 1, 1, -1, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		4	11	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		5	5	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$
		7	4	$(0, 0, -1, 1, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		8	8	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		9	4	$(-1, 1, 0, -1, 1, 0, 0, 0)$
		11	2	$(1, 0, 0, 0, 0, -1, 1, 1)$
		12	4	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		13	1	$(-1, 0, 1, 0, 0, 0, 0, 0)$
		15	1	$(1, 0, -1, 1, 0, 0, 0, 0)$
		16	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
91.		2	14	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		4	11	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		6	10	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		8	7	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
(continued on next page)				

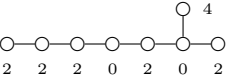
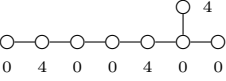
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		10	6	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		12	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		14	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
92.		4	24	$(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		8	15	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		12	6	$(1, -1, 1, 0, 0, 0, 0, 0)$
		16	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
93.		2	12	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		4	9	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		6	10	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		8	8	$(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		10	6	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		12	3	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		14	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		16	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
94.		4	21	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		8	16	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		12	7	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		16	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
95.		2	11	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, -1, 1, 1, -1, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
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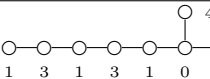
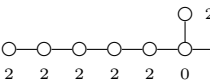
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		4	11	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		6	9	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		8	8	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		10	6	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		12	4	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		14	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		16	2	$(0, 1, 0, 0, 0, 0, 0, 0)$
96.		1	6	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, 0, -1, 2, -1, -1)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		2	4	$(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$
		3	4	$(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$
		4	5	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		5	4	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		6	4	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		7	4	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		8	5	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		9	3	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		10	2	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$
		11	2	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$
		12	3	$(-1, 1, 0, 0, 0, -1, 1, 1)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		13	2	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		14	2	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		15	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		16	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		17	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		20	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
97.	1 3 1 0 3 0 1 4	1	5	$(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		3	5	$(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, -1, 1, 0, 1, -1, -1)$
		4	9	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		5	4	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		7	4	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$
		8	8	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		9	3	$(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		11	2	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$
		(continued on next page)		

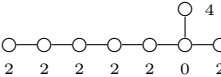
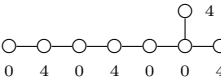
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		12	5	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		13	2	$(1, 0, 0, 0, -1, 1, 0, 0)$
		15	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$
		16	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		17	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		20	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
98.		4	21	$(0, 0, -1, 1, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		8	15	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		12	9	$(1, 0, -1, 1, 0, 0, 0, 0)$
		16	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
99.		2	12	$(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		4	10	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		6	10	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(0, 0, -1, 1, -1, 1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		8	7	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		10	6	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		12	4	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		14	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		16	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		18	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
		(continued on next page)		

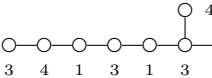
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
100.		1	5	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$
		2	2	$(0, 0, 0, 0, -1, 2, -1, -1)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$
		3	5	$(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		4	6	$(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		5	4	$(0, -1, 1, 0, 1, -1, 0, 0)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		6	2	$(0, 0, -1, 1, 0, 1, -1, -1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$
		7	4	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(0, 0, 0, -1, 0, 1, 0, 0)$
		8	5	$(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		9	4	$(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		10	2	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$
		11	3	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		12	4	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		13	2	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		15	2	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
(continued on next page)				

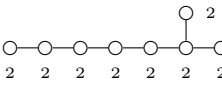
Nilpotent orbits in type EVIII (continued)						
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$		
		16	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$		
		17	1	$(-1, 0, 1, 0, 0, 0, 0, 0)$		
		19	1	$(1, 0, -1, 1, 0, 0, 0, 0)$		
		20	1	$(1, -1, 1, 0, 0, 0, 0, 0)$		
		21	1	$(0, 1, 0, 0, 0, 0, 0, 0)$		
101.		2	10	$(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$		
		4	9	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$		
		6	8	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$		
		8	8	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$		
		10	5	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$		
		12	5	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$		
		14	4	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$		
		16	3	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$		
		18	1	$(1, -1, 1, 0, 0, 0, 0, 0)$		
		20	1	$(0, 1, 0, 0, 0, 0, 0, 0)$		
		102.		4	18	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
				8	15	$(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
12	9			$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$		
16	6			$(1, -1, 1, 0, 0, 0, 0, 0)$		
20	1			$(0, 1, 0, 0, 0, 0, 0, 0)$		
(continued on next page)						

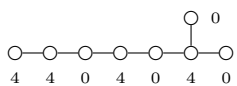
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
103.		1	4	$(0, -1, 2, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		3	4	$(0, 0, -1, 2, -1, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, -1, 1)$
		4	8	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		5	4	$(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		7	3	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$
		8	7	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		9	3	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		11	3	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$
		12	5	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		13	2	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		15	2	$(-1, 1, 0, 0, -1, 1, 0, 0)$
		16	4	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		17	1	$(1, 0, 0, -1, 1, 0, 0, 0)$
		19	1	$(-1, 1, -1, 1, 0, 0, 0, 0)$
		20	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		21	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		24	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
104.		2	10	$(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
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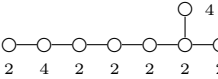
Nilpotent orbits in type EVIII (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{k}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{k}_C$
		4	8	$(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		6	8	$(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		8	7	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(0, 0, -1, 1, -1, 1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		10	7	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		12	5	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		14	4	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		16	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		18	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		20	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		22	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
105.		4	17	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		8	15	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		12	10	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		16	5	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		20	3	$(0, 1, 0, 0, 0, 0, 0, 0)$
(continued on next page)				

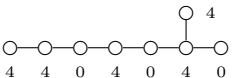
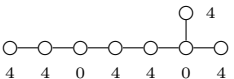
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
106.		2	8	$(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		4	8	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		6	7	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		8	7	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		10	6	$(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, 0, -1, 1, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		12	5	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		14	4	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		16	4	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		18	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		20	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		22	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		24	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
107.		4	16	$(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
(continued on next page)				

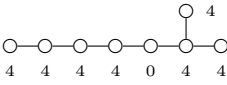
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		8	13	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		12	10	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		16	7	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		20	4	$(1, -1, 1, 0, 0, 0, 0, 0)$
		24	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
108.		1	3	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$
		3	3	$(0, 0, 0, 0, -1, 2, -1, -1)$ $(0, 0, -1, 2, -1, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		4	6	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$
		5	3	$(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$
		7	3	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		8	6	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		9	3	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$
		11	2	$(0, 0, -1, 1, 0, 0, 1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		12	5	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		13	2	$(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$
		15	2	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		(continued on next page)		

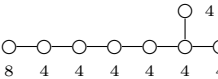
Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		16	4	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		17	2	$(-1, 1, 0, 0, 0, -1, 1, 1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$
		19	1	$(1, 0, 0, 0, 0, 0, 1, -1)$
		20	3	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		21	1	$(-1, 1, 0, -1, 1, 0, 0, 0)$
		23	1	$(1, 0, 0, 0, -1, 1, 0, 0)$
		24	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		25	1	$(-1, 0, 1, 0, 0, 0, 0, 0)$
		27	1	$(1, 0, -1, 1, 0, 0, 0, 0)$
		28	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		32	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
		109.		2
4	7			$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
6	7			$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
8	6			$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		10	6	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		12	5	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		14	5	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		16	3	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		18	3	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		20	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		22	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		24	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		26	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
110.		4	15	$(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 1, -1, 1, 1)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		8	13	$(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		12	10	$(-1, 1, 0, 0, 0, -1, 1, 1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		16	7	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		20	4	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		24	2	$(1, -1, 1, 0, 0, 0, 0, 0)$
		28	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
111.		2	6	$(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, 0, -1, 2, -1, -1)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		4	6	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$
		6	6	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		8	6	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		10	5	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		12	5	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		14	4	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		16	4	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		18	3	$(-1, 1, 0, 0, 0, -1, 1, 1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$
		20	3	$(-1, 1, 0, 0, -1, 1, 0, 0)$ $(0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		22	2	$(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		24	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		26	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		28	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		32	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
112.		4	12	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		8	12	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		12	9	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		16	8	$(-1, 1, 0, 0, 0, -1, 1, 1)$ $(0, -1, 1, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
		20	5	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		24	4	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		28	2	$(1, -1, 1, 0, 0, 0, 0, 0)$
		32	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
113.		4	11	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		8	10	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		12	9	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		16	8	$(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		20	6	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, 0, -1, 1)$
		24	4	$(0, -1, 0, 1, 0, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 0, 0)$
		28	3	$(-1, 0, 1, 0, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0, 0)$
		32	2	$(1, -1, 1, 0, 0, 0, 0, 0, 0)$
		36	1	$(0, 1, 0, 0, 0, 0, 0, 0, 0)$
		114.		4
8	9	$(-1, 1, 1, -1, 0, 0, 0, 0, 0)$ $(0, 0, 0, -1, 1, 0, 1, -1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1, -1)$ $(0, -1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0, 0)$		
12	8	$(0, 0, 0, -1, 1, -1, 1, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1, -1)$ $(-1, 1, 0, 0, 1, -1, 0, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0, 0)$		
16	7	$(0, 0, 0, -1, 0, 1, 0, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1, -1)$ $(1, 0, 0, 0, 1, -1, 0, 0, 0)$		
20	6	$(0, -1, 1, 0, 0, -1, 1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, 1, -1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1, 1)$ $(0, 0, -1, 0, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 1, -1, -1, -1)$		
24	5	$(-1, 1, 0, 0, 0, -1, 1, 1, 1)$ $(0, -1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1, 1)$		
28	4	$(0, -1, 0, 1, 0, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1, 1)$		
		32	3	$(-1, 1, -1, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		36	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, -1, 1, 0, 0, 0, 0)$
		40	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		44	1	$(0, 1, 0, 0, 0, 0, 0, 0)$
115.		4	7	$(0, 0, 0, 0, 0, -1, 2, 0)$ $(0, 0, 0, 0, 0, -1, 0, 2)$ $(0, 0, 0, 0, -1, 2, -1, -1)$ $(0, 0, 0, -1, 2, -1, 0, 0)$ $(0, 0, -1, 2, -1, 0, 0, 0)$ $(0, -1, 2, -1, 0, 0, 0, 0)$ $(-1, 2, -1, 0, 0, 0, 0, 0)$
		8	7	$(0, 0, 0, 0, -1, 1, 1, -1)$ $(0, 0, 0, 0, -1, 1, -1, 1)$ $(0, 0, 0, -1, 1, 1, -1, -1)$ $(0, 0, -1, 1, 1, -1, 0, 0)$ $(0, -1, 1, 1, -1, 0, 0, 0)$ $(-1, 1, 1, -1, 0, 0, 0, 0)$ $(2, -1, 0, 0, 0, 0, 0, 0)$
		12	7	$(0, 0, 0, 0, -1, 0, 1, 1)$ $(0, 0, 0, -1, 1, 0, 1, -1)$ $(0, 0, 0, -1, 1, 0, -1, 1)$ $(0, 0, -1, 1, 0, 1, -1, -1)$ $(0, -1, 1, 0, 1, -1, 0, 0)$ $(-1, 1, 0, 1, -1, 0, 0, 0)$ $(1, 1, -1, 0, 0, 0, 0, 0)$
		16	6	$(0, 0, 0, -1, 1, -1, 1, 1)$ $(0, 0, -1, 1, 0, 0, 1, -1)$ $(0, 0, -1, 1, 0, 0, -1, 1)$ $(0, -1, 1, 0, 0, 1, -1, -1)$ $(-1, 1, 0, 0, 1, -1, 0, 0)$ $(1, 0, 1, -1, 0, 0, 0, 0)$
		20	6	$(0, 0, 0, -1, 0, 1, 0, 0)$ $(0, 0, -1, 1, 0, -1, 1, 1)$ $(0, -1, 1, 0, 0, 0, 1, -1)$ $(0, -1, 1, 0, 0, 0, -1, 1)$ $(-1, 1, 0, 0, 0, 1, -1, -1)$ $(1, 0, 0, 1, -1, 0, 0, 0)$
		24	5	$(0, 0, -1, 1, -1, 1, 0, 0)$ $(0, -1, 1, 0, 0, -1, 1, 1)$ $(-1, 1, 0, 0, 0, 0, 1, -1)$ $(-1, 1, 0, 0, 0, 0, -1, 1)$ $(1, 0, 0, 0, 1, -1, 0, 0)$
		28	4	$(0, 0, -1, 0, 1, 0, 0, 0)$ $(0, -1, 1, 0, -1, 1, 0, 0)$ $(-1, 1, 0, 0, 0, -1, 1, 1)$ $(1, 0, 0, 0, 0, 1, -1, -1)$
		32	4	$(0, -1, 1, -1, 1, 0, 0, 0)$ $(-1, 1, 0, 0, -1, 1, 0, 0)$ $(1, 0, 0, 0, 0, 0, 1, -1)$ $(1, 0, 0, 0, 0, 0, -1, 1)$
(continued on next page)				

Nilpotent orbits in type EVIII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
		36	3	$(0, -1, 0, 1, 0, 0, 0, 0)$ $(-1, 1, 0, -1, 1, 0, 0, 0)$ $(1, 0, 0, 0, 0, -1, 1, 1)$
		40	2	$(-1, 1, -1, 1, 0, 0, 0, 0)$ $(1, 0, 0, 0, -1, 1, 0, 0)$
		44	2	$(-1, 0, 1, 0, 0, 0, 0, 0)$ $(1, 0, 0, -1, 1, 0, 0, 0)$
		48	1	$(1, 0, -1, 1, 0, 0, 0, 0)$
		52	1	$(1, -1, 1, 0, 0, 0, 0, 0)$
		56	1	$(0, 1, 0, 0, 0, 0, 0, 0)$

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