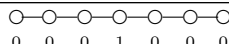
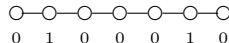
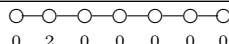
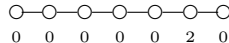
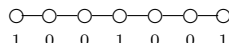
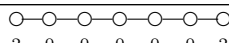
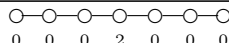
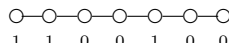
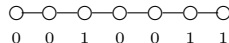
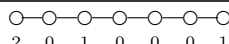


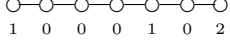
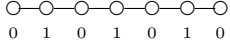
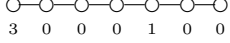
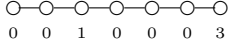
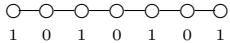
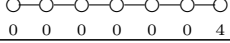
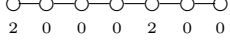
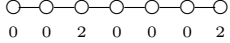
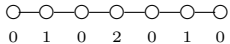
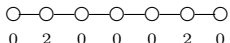
PREHOMOGENEOUS SPACES ASSOCIATED WITH NILPOTENT ORBITS IN TYPE EV

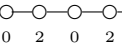
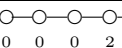
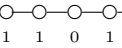
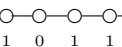
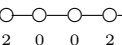
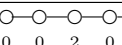
STEVEN GLENN JACKSON AND ALFRED G. NOËL

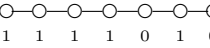
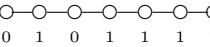
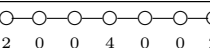
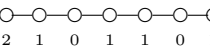
Nilpotent orbits in type EV				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
1.		1	16	$(0, 0, 1, -1, 1, 0, 0)$
		2	1	$(0, 0, 0, 1, 0, 0, 0)$
2.		1	16	$(0, 0, 1, 0, 0,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

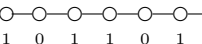
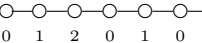
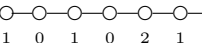
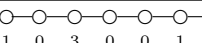
2000 *Mathematics Subject Classification.* 17B05;17B10;17B20;22E30.

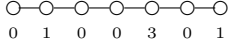
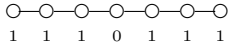
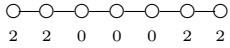
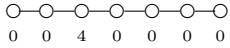
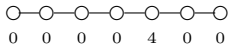
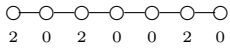
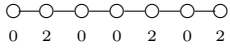
Key words and phrases. Lie group, nilpotent orbit, prehomogeneous space.

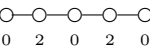
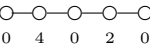
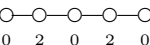
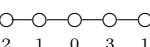
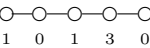
Nilpotent orbits in type EV (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{p}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{p}_C$
11.		1	12	$(0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 1, 0)$
		2	13	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		3	4	$(0, 0, 0, 1, 0, 0, 0)$
12.		1	12	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$
		2	9	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		3	4	$(0, 0, 1, -1, 1, 0, 0)$
		4	1	$(0, 0, 0, 1, 0, 0, 0)$
13.		1	12	$(0, 1, 0, 0, -1, 0, 1)$
		2	18	$(0, 0, 1, 0, -1, 1, 0)$
		3	4	$(0, 0, 0, 1, 0, 0, 0)$
14.		1	12	$(1, 0, -1, 0, 0, 1, 0)$
		2	18	$(0, 1, -1, 0, 1, 0, 0)$
		3	4	$(0, 0, 0, 1, 0, 0, 0)$
15.		1	12	$(0, 1, 0, 0, -1, 0, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		2	10	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		3	4	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		4	2	$(0, 0, 0, 1, 0, 0, 0)$
16.		2	35	$(0, 0, 0, 1, 0, 0, 0)$
17.		2	35	$(0, 0, 0, 1, 0, 0, 0)$
18.		2	19	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		4	4	$(0, 0, 0, 1, 0, 0, 0)$
19.		2	19	$(0, 1, -1, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		4	4	$(0, 0, 0, 1, 0, 0, 0)$
20.		1	8	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$
		2	5	$(1, -1, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$
		3	8	$(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		4	4	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
21.		2	16	$(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
(continued on next page)				

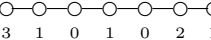
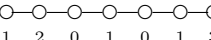
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		4	6	$(0, 0, 0, 1, 0, 0, 0)$
22.		2	14	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		4	8	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
23.		2	14	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		4	8	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
24.		1	10	$(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		2	9	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		3	5	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		4	4	$(0, 0, 1, -1, 1, 0, 0)$
		5	1	$(0, 0, 0, 1, 0, 0, 0)$
25.		1	9	$(0, 1, 0, 0, -1, 0, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, -1)$
		2	8	$(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, 0, -1, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		3	6	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		4	4	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		5	1	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
26.		2	15	$(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		4	9	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
27.		2	18	$(0, 1, -1, 1, -1, 1, 0)$
		4	6	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		6	2	$(0, 0, 0, 1, 0, 0, 0)$
(continued on next page)				

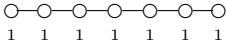
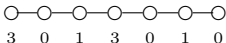
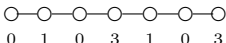
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
28.		1	9	$(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, 0, 0, -1, 0)$
		2	9	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
		3	5	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		4	4	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		5	2	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
29.		1	9	$(0, -1, 0, 0, 0, 1, 0)$ $(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		2	9	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		3	5	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		4	4	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		5	2	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
30.		2	10	$(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$
		4	6	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		6	9	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
31.		1	8	$(1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		2	8	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		3	6	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
(continued on next page)				

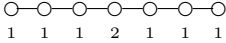
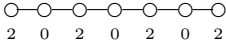
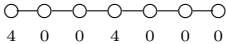
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		4	5	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		5	2	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
32.		1	8	$(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		2	8	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$ $(0, 0, 1, 0, 0, 0, -1)$
		3	6	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
		4	5	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		5	2	$(0, 0, 1, -1, 1, 0, 0)$
		6	1	$(0, 0, 0, 1, 0, 0, 0)$
33.		1	8	$(1, -1, 1, 0, -1, 0, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		2	11	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		3	6	$(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		4	2	$(0, 1, -1, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		5	2	$(0, 0, 1, 0, -1, 1, 0)$
		6	2	$(0, 0, 0, 1, 0, 0, 0)$
34.		1	8	$(1, 0, -1, 0, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$
		2	11	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, -1, 1)$
		3	6	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$
		4	2	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		5	2	$(0, 1, -1, 0, 1, 0, 0)$
		6	2	$(0, 0, 0, 1, 0, 0, 0)$
35.		1	8	$(-1, 0, 0, 1, 0, -1, 1)$ $(0, 1, 0, 0, 0, -1, 0)$
		2	15	$(0, 1, -1, 1, 0, -1, 1)$ $(-1, 0, 0, 0, 1, 0, 0)$
		3	6	$(0, 1, -1, 0, 1, 0, 0)$
		5	2	$(0, 0, 1, 0, 0, -1, 1)$
(continued on next page)				

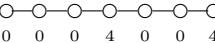
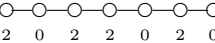
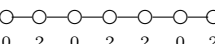
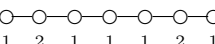
Nilpotent orbits in type EV (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{p}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{p}_C$
36.		6	3	$(0, 0, 0, 1, 0, 0, 0)$
		1	8	$(0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$
		2	15	$(1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		3	6	$(0, 0, 1, 0, -1, 1, 0)$
		5	2	$(1, -1, 0, 0, 1, 0, 0)$
		6	3	$(0, 0, 0, 1, 0, 0, 0)$
37.		1	8	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		2	8	$(0, 1, 0, 0, -1, 0, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, 0, -1, 1)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		3	6	$(0, 1, -1, 1, 0, -1, 1)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		4	4	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		5	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		6	2	$(0, 0, 0, 1, 0, 0, 0)$
38.		2	14	$(1, -1, 0, 1, 0, -1, 1)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		4	8	$(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		6	6	$(0, 0, 0, 1, 0, 0, 0)$
39.		2	30	$(0, 1, -1, 0, 1, 0, 0)$
		6	5	$(0, 0, 0, 1, 0, 0, 0)$
40.		2	30	$(0, 0, 1, 0, -1, 1, 0)$
		6	5	$(0, 0, 0, 1, 0, 0, 0)$
41.		2	16	$(1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 1)$ $(-1, 0, 0, 0, 1, 0, 0)$
		4	8	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		6	3	$(0, 0, 0, 1, 0, 0, 0)$
42.		2	16	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
(continued on next page)				

Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
43.		4	8	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		6	3	$(0, 0, 0, 1, 0, 0, 0)$
		2	12	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$
		4	9	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		6	4	$(0, 0, 1, -1, 1, 0, 0)$
44.		8	1	$(0, 0, 0, 1, 0, 0, 0)$
		2	9	$(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(0, 1, 0, 0, 0, -1, 0)$
		4	8	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		6	5	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		8	4	$(0, 0, 1, -1, 1, 0, 0)$
45.		10	1	$(0, 0, 0, 1, 0, 0, 0)$
		2	9	$(0, -1, 0, 0, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$
		4	8	$(1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		6	5	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		8	4	$(0, 0, 1, -1, 1, 0, 0)$
46.		10	1	$(0, 0, 0, 1, 0, 0, 0)$
		1	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		2	7	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, -1)$
		3	4	$(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, 0, -1, 0, 1, 0)$
		4	2	$(-1, 0, 0, 0, 1, 0, 0)$ $(1, -1, 0, 1, 0, 0, -1)$
		5	4	$(1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		6	5	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		7	2	$(0, 0, 1, -1, 1, 0, 0)$
47.		10	1	$(0, 0, 0, 1, 0, 0, 0)$
		1	6	$(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$
(continued on next page)				

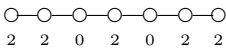
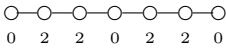
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		2	7	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, 0, -1)$
		3	4	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		4	2	$(-1, 0, 0, 1, 0, -1, 1)$ $(0, 0, 1, 0, 0, 0, -1)$
		5	4	$(0, 1, -1, 1, 0, -1, 1)$ $(-1, 0, 0, 0, 1, 0, 0)$
		6	5	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		7	2	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
		48.		1
2	9			$(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
3	5			$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(0, 0, 1, 0, 0, 0, -1)$
4	4			$(1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
5	3			$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
6	4			$(0, 0, 1, -1, 1, 0, 0)$
7	1			$(0, 0, 0, 1, 0, 0, 0)$
49.		1	7	$(1, 0, 0, -1, 0, 0, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(0, 1, 0, -1, 1, 0, -1)$
		2	9	$(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		3	5	$(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
		4	4	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		5	3	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		6	4	$(0, 0, 1, -1, 1, 0, 0)$
		7	1	$(0, 0, 0, 1, 0, 0, 0)$
(continued on next page)				

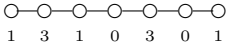
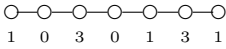
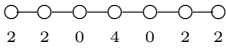
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
50.		1	7	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		2	7	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		3	5	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		4	5	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		5	3	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		6	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		7	1	$(0, 0, 1, -1, 1, 0, 0)$
		8	1	$(0, 0, 0, 1, 0, 0, 0)$
51.		1	6	$(1, 0, -1, 0, 1, -1, 1)$ $(0, 1, 0, 0, 0, -1, 0)$
		2	11	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 1, -1, 1)$
		3	4	$(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
		5	4	$(0, 1, -1, 1, 0, -1, 1)$
		6	6	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		7	2	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
52.		1	6	$(0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, 0, -1, 0, 1)$
		2	11	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$
		3	4	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
(continued on next page)				

Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		5	4	$(1, -1, 0, 1, -1, 1, 0)$
		6	6	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		7	2	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
53.		1	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		2	6	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, -1)$
		3	4	$(-1, 0, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$
		4	4	$(1, -1, 0, 1, 0, -1, 1)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, 0, -1, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		5	4	$(0, 1, -1, 1, 0, -1, 1)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		6	3	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		7	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		8	1	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
		54.		2
4	10			$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
6	4			$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
8	2			$(0, 0, 0, 1, 0, 0, 0)$
55.		2	22	$(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
		6	12	$(0, 0, 1, -1, 1, 0, 0)$
(continued on next page)				

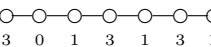
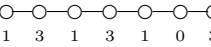
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
56.		10	1	$(0, 0, 0, 1, 0, 0, 0)$
		2	22	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		6	12	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
57.		2	12	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$
		4	8	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
		6	6	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		8	2	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
58.		2	12	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		4	8	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		6	6	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		8	2	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
59.		1	5	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$
		2	5	$(-1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		3	5	$(0, 1, 0, 0, -1, 0, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 1, 0, -1)$
		4	4	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		5	4	$(0, 1, -1, 1, 0, -1, 1)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
(continued on next page)				

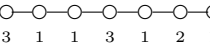
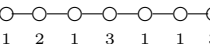
Nilpotent orbits in type EV (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{p}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{p}_C$
		6	3	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		7	1	$(0, 1, -1, 1, -1, 1, 0)$
		8	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		9	1	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
60.		1	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$
		2	6	$(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, 0, -1, 0)$
		3	4	$(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, 0, 0, -1, 1, -1)$
		4	4	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, 0, -1, 1, 0, -1)$
		5	3	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		6	3	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		7	2	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$
		8	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		9	1	$(0, 0, 1, -1, 1, 0, 0)$
		10	1	$(0, 0, 0, 1, 0, 0, 0)$
61.		1	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
(continued on next page)				

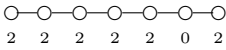
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$ (0, -1, 0, 0, 0, 1, 0) (0, 1, 0, 0, -1, 0, 1) (1, -1, 1, -1, 1, -1, 1) (-1, 0, 0, 1, 0, -1, 1) (1, -1, 0, 1, 0, 0, -1) (0, 1, 0, -1, 1, 0, -1)
		2	6	(-1, 1, -1, 0, 0, 1, 0) (0, 1, 0, -1, 1, -1, 1) (1, -1, 0, 1, 0, -1, 1) (0, 1, -1, 1, 0, 0, -1)
		3	4	(1, 0, -1, 0, 0, 1, 0) (-1, 0, 1, -1, 0, 1, 0) (0, 1, -1, 1, 0, -1, 1) (0, 0, 1, 0, 0, 0, -1)
		4	4	(1, -1, 1, -1, 0, 1, 0) (-1, 0, 0, 1, -1, 1, 0) (0, 0, 1, 0, 0, -1, 1)
		5	3	(1, -1, 1, -1, 0, 1, 0) (-1, 0, 0, 1, -1, 1, 0) (0, 0, 1, 0, 0, -1, 1)
		6	3	(0, 1, 0, -1, 0, 1, 0) (1, -1, 0, 1, -1, 1, 0) (-1, 0, 0, 0, 1, 0, 0)
		7	2	(0, 1, -1, 1, -1, 1, 0) (1, -1, 0, 0, 1, 0, 0)
		8	2	(0, 0, 1, 0, -1, 1, 0) (0, 1, -1, 0, 1, 0, 0)
		9	1	(0, 0, 1, -1, 1, 0, 0)
		10	1	(0, 0, 0, 1, 0, 0, 0)
		62.		2
4	9			(0, 1, 0, -1, 1, -1, 1) (1, -1, 0, 1, 0, -1, 1) (1, -1, 1, -1, 0, 1, 0) (-1, 0, 0, 0, 1, 0, 0) (0, 0, 1, 0, 0, 0, -1)
6	5			(0, 1, 0, -1, 0, 1, 0) (0, 0, 1, 0, 0, -1, 1) (1, -1, 0, 0, 1, 0, 0)
8	4			(0, 0, 1, -1, 1, 0, 0)
10	1			(0, 0, 0, 1, 0, 0, 0)
63.		2	12	(0, 1, 0, 0, -1, 0, 1) (1, 0, -1, 0, 0, 1, 0) (1, -1, 0, 1, 0, -1, 1)
		4	8	(0, 1, -1, 1, 0, -1, 1) (1, -1, 0, 1, -1, 1, 0)
		6	6	(0, 0, 1, 0, 0, -1, 1) (0, 1, -1, 1, -1, 1, 0) (1, -1, 0, 0, 1, 0, 0)
(continued on next page)				

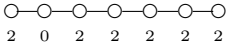
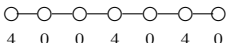
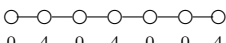
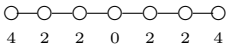
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		8	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		10	2	$(0, 0, 0, 1, 0, 0, 0)$
64.		1	5	$(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, 0, -1, 0, 1, 0, -1)$
		2	10	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		3	5	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 1, -1, 1, 0)$
		5	3	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		6	6	$(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		7	2	$(0, 0, 1, 0, -1, 1, 0)$
		9	1	$(0, 1, -1, 0, 1, 0, 0)$
		10	2	$(0, 0, 0, 1, 0, 0, 0)$
		65.		1
2	10			$(-1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(0, 1, -1, 1, 0, 0, -1)$
3	5			$(1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 1)$
5	3			$(-1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
6	6			$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$
7	2			$(0, 1, -1, 0, 1, 0, 0)$
9	1			$(0, 0, 1, 0, -1, 1, 0)$
10	2			$(0, 0, 0, 1, 0, 0, 0)$
66.		2	9	$(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, -1)$
		4	6	$(-1, 0, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$
		6	6	$(1, -1, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
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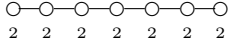
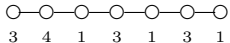
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		8	4	$(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		10	4	$(0, 0, 1, -1, 1, 0, 0)$
		14	1	$(0, 0, 0, 1, 0, 0, 0)$
67.		2	11	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		4	8	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		6	6	$(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		8	3	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		10	2	$(0, 0, 0, 1, 0, 0, 0)$
68.		2	11	$(1, 0, -1, 0, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(0, 1, -1, 1, 0, 0, -1)$
		4	8	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, -1, 1)$ $(0, 0, 1, 0, 0, 0, -1)$
		6	6	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$
		8	3	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		10	2	$(0, 0, 0, 1, 0, 0, 0)$
69.		2	21	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 1, -1, 1, 0)$
		6	11	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		10	3	$(0, 0, 0, 1, 0, 0, 0)$
70.		2	21	$(1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, -1, 1)$
		6	11	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		10	3	$(0, 0, 0, 1, 0, 0, 0)$
71.		2	8	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
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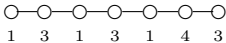
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		4	8	$(0, 1, 0, 0, -1, 0, 1)$
				$(1, 0, -1, 0, 0, 1, 0)$
				$(1, -1, 0, 1, 0, -1, 1)$
				$(-1, 0, 0, 1, -1, 1, 0)$
				$(0, 1, -1, 1, 0, 0, -1)$
				6
$(1, -1, 0, 1, -1, 1, 0)$				
$(-1, 0, 0, 0, 1, 0, 0)$				
$(0, 0, 1, 0, 0, 0, -1)$				
8	4	$(0, 0, 1, 0, 0, -1, 1)$		
		$(0, 1, -1, 1, -1, 1, 0)$		
$(1, -1, 0, 0, 1, 0, 0)$				
10	2	$(0, 0, 1, 0, -1, 1, 0)$		
		$(0, 1, -1, 0, 1, 0, 0)$		
12	2	$(0, 0, 0, 1, 0, 0, 0)$		
72.		1	4	$(1, 0, -1, 1, -1, 0, 1)$ $(0, 1, 0, 0, -1, 1, -1)$ $(1, 0, -1, 0, 1, 0, -1)$
		2	8	$(1, 0, -1, 0, 1, -1, 1)$
				$(-1, 1, -1, 0, 0, 1, 0)$
				$(0, 1, 0, 0, -1, 0, 1)$
				$(0, 1, 0, -1, 1, 0, -1)$
		3	4	$(-1, 0, 0, 1, 0, 0, -1)$
				$(-1, 0, 1, -1, 0, 1, 0)$
		5	3	$(0, 1, 0, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		6	6	$(-1, 0, 0, 1, -1, 1, 0)$
				$(0, 1, -1, 1, 0, -1, 1)$
		7	2	$(0, 1, 0, -1, 0, 1, 0)$
				$(0, 0, 1, 0, 0, 0, -1)$
9	2	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, -1, 1)$		
10	3	$(0, 1, -1, 1, -1, 1, 0)$		
11	1	$(0, 1, -1, 0, 1, 0, 0)$		
14	1	$(0, 0, 1, -1, 1, 0, 0)$ $(0, 0, 0, 1, 0, 0, 0)$		
73.		1	4	$(1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$
		2	8	$(1, -1, 1, 0, -1, 0, 1)$
				$(1, 0, -1, 0, 0, 1, 0)$
3	4	$(-1, 0, 1, -1, 0, 1, 0)$		
		$(-1, 0, 0, 1, 0, 0, -1)$		
		$(0, 1, 0, 0, -1, 1, -1)$		
		$(1, -1, 1, -1, 0, 1, 0)$		
		$(1, -1, 0, 1, 0, 0, -1)$		
		$(0, 1, 0, -1, 1, 0, -1)$		
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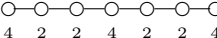
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		5	3	$(0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, -1, 1, 0)$
		6	6	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		7	2	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		9	2	$(0, 1, -1, 1, -1, 1, 0)$
		10	3	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		11	1	$(0, 0, 1, -1, 1, 0, 0)$
		14	1	$(0, 0, 0, 1, 0, 0, 0)$
74.		1	4	$(1, 0, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(1, 0, -1, 0, 1, 0, -1)$ $(1, -1, 1, 0, -1, 1, -1)$
		2	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		3	4	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 1, 0, -1)$
		4	2	$(1, 0, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$
		5	3	$(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$
		6	4	$(1, -1, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		7	2	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 0, 1, 0, 0, 0, -1)$
		8	2	$(1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		9	2	$(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		10	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		11	1	$(0, 0, 1, -1, 1, 0, 0)$
		14	1	$(0, 0, 0, 1, 0, 0, 0)$
75.		1	4	$(1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 1, -1, 1)$ $(0, 1, 0, 0, -1, 1, -1)$
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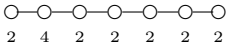
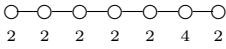
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		2	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, -1)$
		3	4	$(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$
		4	2	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 1, 0)$
		5	3	$(-1, 0, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 1, -1, 1)$ $(0, 1, -1, 1, 0, 0, -1)$
		6	4	$(1, -1, 0, 1, 0, -1, 1)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		7	2	$(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
		8	2	$(0, 1, -1, 1, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		9	2	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$
		10	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		11	1	$(0, 0, 1, -1, 1, 0, 0)$
		14	1	$(0, 0, 0, 1, 0, 0, 0)$
		76.		2
	4	7	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$	
	6	6	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$	
	8	4	$(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$	
	10	3	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$	
	12	1	$(0, 0, 1, -1, 1, 0, 0)$	
(continued on next page)				

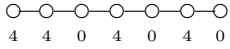
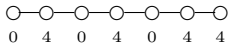
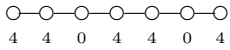
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		14	1	$(0, 0, 0, 1, 0, 0, 0)$
77.		2	9	$(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, 0, -1, 0, 1)$ $(0, 1, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, -1)$
		4	7	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$ $(0, 1, -1, 1, 0, 0, -1)$
		6	6	$(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		8	4	$(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$
		10	3	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		12	1	$(0, 0, 1, -1, 1, 0, 0)$
		14	1	$(0, 0, 0, 1, 0, 0, 0)$
78.		2	17	$(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$
		6	11	$(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		10	6	$(0, 0, 1, -1, 1, 0, 0)$
		14	1	$(0, 0, 0, 1, 0, 0, 0)$
79.		2	17	$(1, -1, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		6	11	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		10	6	$(0, 0, 1, -1, 1, 0, 0)$
		14	1	$(0, 0, 0, 1, 0, 0, 0)$
80.		2	8	$(1, 0, -1, 1, -1, 0, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		4	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
(continued on next page)				

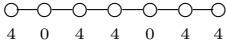
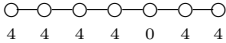
Nilpotent orbits in type EV (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{p}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{p}_C$
		6	6	$(0, 1, 0, 0, -1, 0, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, 0, -1, 1)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		8	4	$(0, 1, -1, 1, 0, -1, 1)$ $(1, -1, 0, 1, -1, 1, 0)$
		10	4	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		12	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		14	2	$(0, 0, 0, 1, 0, 0, 0)$
81.		2	7	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		4	7	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		6	5	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		8	5	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		10	3	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		12	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		14	1	$(0, 0, 1, -1, 1, 0, 0)$
		16	1	$(0, 0, 0, 1, 0, 0, 0)$
82.		1	3	$(1, 0, -1, 1, -1, 0, 1)$ $(1, 0, -1, 0, 1, 0, -1)$ $(1, -1, 1, 0, -1, 1, -1)$
(continued on next page)				

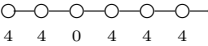
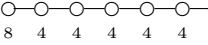
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		2	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, 0, -1, 0)$
		3	3	$(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$
		5	3	$(1, 0, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		6	5	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$
		7	2	$(0, 1, 0, -1, 1, -1, 1)$ $(-1, 0, 0, 0, 1, 0, 0)$
		9	2	$(1, -1, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		10	4	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		11	1	$(0, 0, 1, 0, 0, -1, 1)$
		13	1	$(0, 1, -1, 1, -1, 1, 0)$
		14	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		15	1	$(0, 0, 1, -1, 1, 0, 0)$
		18	1	$(0, 0, 0, 1, 0, 0, 0)$
83.		1	3	$(1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 1, -1, 1)$
		2	6	$(0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		3	3	$(1, -1, 1, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		5	3	$(-1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, 0, -1, 0, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$
(continued on next page)				

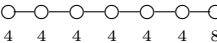
Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		6	5	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(0, 1, -1, 1, 0, 0, -1)$
		7	2	$(1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		9	2	$(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, -1, 1)$
		10	4	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		11	1	$(1, -1, 0, 0, 1, 0, 0)$
		13	1	$(0, 1, -1, 1, -1, 1, 0)$
		14	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		15	1	$(0, 0, 1, -1, 1, 0, 0)$
		18	1	$(0, 0, 0, 1, 0, 0, 0)$
84.		2	6	$(1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
	4	4	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$	
	6	5	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$	
	8	4	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$	
	10	4	$(1, -1, 0, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$	
	12	2	$(0, 1, -1, 1, 0, -1, 1)$ $(1, -1, 0, 1, -1, 1, 0)$	
	14	3	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$	
	16	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$	
	18	1	$(0, 0, 1, -1, 1, 0, 0)$	
(continued on next page)				

Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		22	1	$(0, 0, 0, 1, 0, 0, 0)$
85.		2	7	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, 0, -1, 0)$
		4	6	$(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		6	5	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$
		8	4	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		10	4	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		12	2	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$
		14	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		16	1	$(0, 0, 1, -1, 1, 0, 0)$
		18	1	$(0, 0, 0, 1, 0, 0, 0)$
86.		2	7	$(0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		4	6	$(-1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
(continued on next page)				

Nilpotent orbits in type EV (continued)				
Orbit	K_C diagram	i	$\dim \mathfrak{g}_C^i \cap \mathfrak{p}_C$	Highest weights of $\mathfrak{g}_C^i \cap \mathfrak{p}_C$
		6	5	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(0, 1, -1, 1, 0, 0, -1)$
		8	4	$(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 1, -1, 1, 0, -1, 1)$ $(0, 0, 1, 0, 0, 0, -1)$
		10	4	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		12	2	$(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		14	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		16	1	$(0, 0, 1, -1, 1, 0, 0)$
		18	1	$(0, 0, 0, 1, 0, 0, 0)$
87.		2	13	$(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, 0, 0, -1, 0)$
		6	10	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
		10	7	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		14	4	$(0, 0, 1, -1, 1, 0, 0)$
		18	1	$(0, 0, 0, 1, 0, 0, 0)$
88.		2	13	$(0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		6	10	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		10	7	$(0, 1, 0, -1, 0, 1, 0)$ $(0, 0, 1, 0, 0, -1, 1)$ $(1, -1, 0, 0, 1, 0, 0)$
		14	4	$(0, 0, 1, -1, 1, 0, 0)$
		18	1	$(0, 0, 0, 1, 0, 0, 0)$
89.		2	11	$(1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
(continued on next page)				

Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		6	9	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		10	7	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		14	5	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		18	2	$(0, 0, 1, -1, 1, 0, 0)$
		22	1	$(0, 0, 0, 1, 0, 0, 0)$
90.		2	11	$(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(0, 1, 0, -1, 1, 0, -1)$ $(-1, 0, 0, 1, 0, 0, -1)$
		6	9	$(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, 0, -1, 1, -1, 1)$ $(0, 1, -1, 1, 0, 0, -1)$
		10	7	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		14	5	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		18	2	$(0, 0, 1, -1, 1, 0, 0)$
		22	1	$(0, 0, 0, 1, 0, 0, 0)$
91.		2	9	$(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, 0, -1, 0)$
		6	8	$(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		10	7	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
(continued on next page)				

Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		14	5	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		18	3	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 0, 1, 0, 0)$
		22	2	$(0, 0, 1, -1, 1, 0, 0)$
		26	1	$(0, 0, 0, 1, 0, 0, 0)$
92.		2	9	$(0, -1, 0, 0, 0, 1, 0)$ $(1, -1, 1, 0, -1, 0, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		6	8	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		10	7	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		14	5	$(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, 0, -1, 1)$
		18	3	$(1, -1, 0, 0, 1, 0, 0)$ $(0, 0, 1, 0, -1, 1, 0)$
		22	2	$(0, 0, 1, -1, 1, 0, 0)$
		26	1	$(0, 0, 0, 1, 0, 0, 0)$
		93.		2
6	6			$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
(continued on next page)				

Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		10	6	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		14	5	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		18	4	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		22	3	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		26	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		30	1	$(0, 0, 1, -1, 1, 0, 0)$
		34	1	$(0, 0, 0, 1, 0, 0, 0)$
94.		2	7	$(1, 0, -1, 1, -1, 0, 1)$ $(-1, 0, 1, 0, -1, 0, 1)$ $(-1, 1, -1, 0, 1, -1, 1)$ $(0, -1, 0, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, 0, -1)$ $(1, -1, 1, -1, 1, 0, -1)$ $(0, 1, 0, 0, -1, 1, -1)$
		6	6	$(1, -1, 1, 0, -1, 0, 1)$ $(1, 0, -1, 0, 1, -1, 1)$ $(-1, 0, 1, -1, 1, -1, 1)$ $(-1, 1, -1, 0, 0, 1, 0)$ $(1, -1, 0, 1, 0, 0, -1)$ $(0, 1, 0, -1, 1, 0, -1)$
		10	6	$(0, 1, 0, 0, -1, 0, 1)$ $(1, -1, 1, -1, 1, -1, 1)$ $(1, 0, -1, 0, 0, 1, 0)$ $(-1, 0, 0, 1, 0, -1, 1)$ $(-1, 0, 1, -1, 0, 1, 0)$ $(0, 1, -1, 1, 0, 0, -1)$
		14	5	$(0, 1, 0, -1, 1, -1, 1)$ $(1, -1, 0, 1, 0, -1, 1)$ $(1, -1, 1, -1, 0, 1, 0)$ $(-1, 0, 0, 1, -1, 1, 0)$ $(0, 0, 1, 0, 0, 0, -1)$
		18	4	$(0, 1, -1, 1, 0, -1, 1)$ $(0, 1, 0, -1, 0, 1, 0)$ $(1, -1, 0, 1, -1, 1, 0)$ $(-1, 0, 0, 0, 1, 0, 0)$
(continued on next page)				

Nilpotent orbits in type EV (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{p}_{\mathbb{C}}$
		22	3	$(0, 0, 1, 0, 0, -1, 1)$ $(0, 1, -1, 1, -1, 1, 0)$ $(1, -1, 0, 0, 1, 0, 0)$
		26	2	$(0, 0, 1, 0, -1, 1, 0)$ $(0, 1, -1, 0, 1, 0, 0)$
		30	1	$(0, 0, 1, -1, 1, 0, 0)$
		34	1	$(0, 0, 0, 1, 0, 0, 0)$

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