

PREHOMOGENEOUS SPACES ASSOCIATED WITH NILPOTENT ORBITS IN TYPE EVII

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Nilpotent orbits in type EVII					
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	16	$(0, 1, 0, 0, 0, 0, -1)$	
2.		1	16	$(0, 1, 0, 0, 0, 0, -1)$	
3.		1	16	$(0, 1, 0, 0, 0, 0, -1)$	
4.		1	16	$(0, 1, 0, 0, 0, 0, -1)$	
5.		1	16	$(-1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, 0, -1, 0)$	
		2	8	$(0, 1, 0, 0, 0, 0, -1)$	
8.		2	16	$(0, 1, 0, 0, 0, 0, -1)$	
9.		2	16	$(0, 1, 0, 0, 0, 0, -1)$	
10.		2	20	$(0, -1, 0, 1, 0, 0, -1)$	
		4	1	$(0, 1, 0, 0, 0, 0, -1)$	
11.		1	12	$(1, 1, 0, 0, -1, 0, 0)$ $(1, -1, 0, 0, 0, 1, -1)$	
		2	12	$(0, 0, 1, 0, -1, 1, -1)$	
		3	4	$(0, -1, 0, 1, 0, 0, -1)$	
		4	1	$(0, 1, 0, 0, 0, 0, -1)$	
12.		1	12	$(0, 1, -1, 0, 0, 1, -1)$ $(1, -1, 0, 0, 0, 1, -1)$	
		2	12	$(1, 0, -1, 0, 1, 0, -1)$	
		3	4	$(0, -1, 0, 1, 0, 0, -1)$	
		4	1	$(0, 1, 0, 0, 0, 0, -1)$	
<i>(continued on next page)</i>					

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Nilpotent orbits in type EVII (continued)				
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$
13.		1	8	$(-1, 0, 0, 0, 1, 0, -1)$
		3	8	$(0, 0, 1, 0, 0, -1, 0)$
		4	8	$(0, 1, 0, 0, 0, 0, -1)$
14.		1	8	$(0, 0, 1, 0, 0, -1, 0)$
		3	8	$(-1, 0, 0, 0, 1, 0, -1)$
		4	8	$(0, 1, 0, 0, 0, 0, -1)$
15.		2	16	$(-1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, 0, -1, 0)$
		4	8	$(0, 1, 0, 0, 0, 0, -1)$
16.		2	16	$(-1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, 0, -1, 0)$
		4	8	$(0, 1, 0, 0, 0, 0, -1)$
17.		4	16	$(0, 1, 0, 0, 0, 0, -1)$
18.		4	16	$(0, 1, 0, 0, 0, 0, -1)$
19.		2	16	$(-1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, 0, -1, 0)$
		4	8	$(0, 1, 0, 0, 0, 0, -1)$
20.		2	14	$(-1, -1, 1, 0, 0, 1, -1)$ $(1, -1, 0, 0, 1, -1, 0)$ $(-1, 0, 0, 1, 0, -1, 0)$
		4	9	$(1, -1, 0, 0, 0, 1, -1)$ $(-1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, 0, -1, 0)$
		6	6	$(0, -1, 0, 1, 0, 0, -1)$
		8	1	$(0, 1, 0, 0, 0, 0, -1)$
21.		4	16	$(-1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, 0, -1, 0)$
		8	8	$(0, 1, 0, 0, 0, 0, -1)$
22.		4	16	$(-1, 0, 0, 0, 1, 0, -1)$ $(0, 0, 1, 0, 0, -1, 0)$
		8	8	$(0, 1, 0, 0, 0, 0, -1)$

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