

PREHOMOGENEOUS SPACES ASSOCIATED WITH NILPOTENT ORBITS IN TYPE EIV

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Nilpotent orbits in type EIV					
Orbit	$K_{\mathbb{C}}$ diagram	i	$\dim \mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Highest weights of $\mathfrak{g}_{\mathbb{C}}^i \cap \mathfrak{k}_{\mathbb{C}}$	Prehomogeneous space
1.	$\begin{array}{ccccccc} \circ & - & \circ & \Rightarrow & \circ & - & \circ \\ 0 & 0 & 0 & & 0 & 1 \end{array}$	1	8	$(0, 0, 1, -1)$	Spin_7
		2	7	$(1, 0, 0, 0)$	SO_7
2.	$\begin{array}{ccccccc} \circ & - & \circ & \Rightarrow & \circ & - & \circ \\ 0 & 0 & 0 & & 0 & 2 \end{array}$	2	8	$(0, 0, 1, -1)$	Spin_7
		4	7	$(1, 0, 0, 0)$	SO_7

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

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