

“Prospects for the realization of room-temperature superconductivity in polyhydrides”



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Dr. Dmitrii Semenok received his PhD for research on superhydrides in 2022 at Skolkovo Institute of Science and Technology (Skoltech, Russia). He received two MSc degrees in 2018 from the Moscow Institute of Physics and Technology (MIPT) and Skoltech after the defense of his MS thesis devoted to computer modeling of superconducting hydrides of transition metals, lanthanides, and actinides under high pressure. Currently, he holds the position of advanced postdoc at the Center for High-Pressure Science & Technology Advanced Research, Beijing, China. Dmitrii has participated in the discovery and study of most of the metal polyhydrides known today, including ThH_{10} , YH_6 , CeH_9 , PrH_9 , NdH_9 , EuH_9 , BaH_{12} , SrH_{22} , SnH_4 , La_4H_{23} , $(\text{La}, \text{Y})\text{H}_{10}$, $(\text{La}, \text{Nd})\text{H}_{10}$, etc.