

Axion Dark Matter Search at IBS/CAPP

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The center for axion and precision physics (IBS/CAPP) is moving from the construction phase into operation mode regarding a number of axion dark matter experiments. I will describe our status in setting up the ultimate axion dark matter experiments in a wide frequency range. We are commissioning high-field, high-volume magnets and we are developing the required quantum-noise-limited amplifiers as well as the required know-how to reach the required sensitivity to answer whether or not axions are the dominant source of the local axion dark matter for the most promising axion frequency range of 1-50 GHz. I will also describe the status of the storage ring proton EDM experiment development.

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