

First axion dark matter search with toroidal geometry

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We report the first axion dark matter search with toroidal geometry.

Exclusion limits of the axion-photon coupling $g_{a\gamma\gamma}$ over the axion mass range from 24.7 to 29.1 μeV at the 90% confidence level are set through this pioneering search. Prospects for axion dark matter searches with larger scale toroidal geometry are also given.

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