

Search for ALPs with mass near 2.3 eV via stimulated resonant photon scattering in a three-laser collision at a large crossing angle eV-mass

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Axion-like particles(ALPs) are attractive candidates that could explain reported excesses in the cosmic optical and infrared background. We aim to search for ALPs via stimulated resonant photon scattering by colliding three short-pulse lasers. By changing angle of incidence of the three beams, the center-of-mass-system collision energy can be varied and the eV mass range can be continuously searched for. In this talk, I will report initial point search performed with a large-crossing-angle setup.

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