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Search for sub-eV dark fields at stimulated laser colliders

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We introduce a novel approach to search for sub-eV resonance states with quasi-parallel photon-photon scatterings in a focused production laser field by further stimulating decay of the produced long-lifetime resonance states with an additional coherent laser field. Therefore, this method can be sensitive to something dark in the Universe [1-3] and be complementary to the well-known methods to search for Axion-Like-Particles. We present the results of the preparatory search [4] and the future prospects [5].

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