

Dark Matter, Baryogenesis, & Naturalness at Belle II

Wednesday, 16 October 2024 14:50 (30 minutes)

Belle II is sensitive to $O(\text{GeV})$ visibly-decaying dark photons which kinetically mix with the Standard Model photon (ie through the vector portal). Interestingly, there are a number of motivated, non-vanilla BSM models which all point to the masses and couplings that are imminently detectable there. We'll cover a range of such scenarios with broad theoretical motivations such as self-interacting dark matter, asymmetric dark matter & baryogenesis, and models of neutral naturalness.

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Session Classification: Workshop on taus and dark sectors