

Search for dark particles at Belle

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The dark photon, A , the dark Higgs boson, h , and the light vector gauge boson, ω' , are hypothetical constituents featured in a number of recently proposed Dark Sector Models. We will present a search for these particles in the so-called Higgs-strahlung, radiative, and neutral D -meson decay channels. Using the data set collected, by the Belle experiment, we present our results for the prompt decay and displaced vertex decay hypothesis when allowed.

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