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Dark sector searches at Belle (II)

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The dark photon, A , the dark Higgs boson, h , and the dark baryon, B' , are hypothetical constituents featured in a number of recently proposed Dark Sector Models. Search for these particles are performed in the so-called dark Higgs-strahlung and radiative processes, and in neutral D -meson decays channels. We will present results for the search of dark sector particles with prompt and displaced vertex decay topologies, when applicable, obtained using 1.0 fb^{-1} of data collected by the Belle detector. Finally we will discuss the discovery potential of the Belle II experiment when 50 fb^{-1} of data will be collected within the next decade.

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