## ALPS2017 - an Alpine LHC Physics Summit



Contribution ID: 36 Type: Afternoon Session

## Dark sector searches at Belle (II)

Thursday 20 April 2017 18:25 (15 minutes)

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 \invab of data collected by the Belle detector. Finally we will discuss the discovery potential of the Belle II experiment when 50 \invab of data will be collected within the next decade.

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