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Dark Photon Search at Yemilab, Korea

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Dark photon is a well-motivated hypothetical particle introduced to explain BSM hints revealed in several independent experiments. A 3 kton-scale neutrino detector to be proposed in Yemilab, currently under construction in Korea can shed light on dark photon search using 100 MeV electron beam striking on a thick tungsten target. Best direct search sensitivity is expected for dark photons with a mass range from sub-MeV to $O(10 \text{ MeV})$. In this talk, we will introduce a dark photon search using a deep underground neutrino detector at Yemilab.

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