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Search for dark photons using CRESST-II data

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The dynamics of galaxies and galaxy clusters give many hints for the existence of cold dark matter. However, the nature of dark matter remains unknown and is subject to direct dark matter searches. Many of these searches focus on the observation of dark-matter particles scattering off target nuclei.

Several theories predict dark-matter particles interacting mainly with the electrons of the target material. Such events can not be distinguished from natural radioactivity and cosmogenics on an event-by-event basis.

We present the current status of the search for dark-matter particles interacting with the electrons of calcium tungstate. Using data from CRESST-II phase 2 we search in particular for dark photons.

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