

From dark matter search to industry applications

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Arktis Radiation Detectors Ltd is a spin-off company of ETH Zurich, specialized in the development of radiation detection systems based on noble gas. The technology originates from the dark matter search experiment ArDM at CERN. In this talk, the application of noble gas for the detection of neutrons and gammas will be discussed and its main application in the homeland security market presented. Steps and challenges which have to be addressed when bringing a technology from controlled lab environment to rugged outdoor conditions will be highlighted.