

The SAUNA CUBE Project: A New Concept in Radioxenon Detection Using Noble Gas System Arrays

By using existing technology for radioxenon detection and making it less complex it would be possible to manufacture very reliable and less costly systems compared to the ones used today. The resulting decreased sensitivity of the individual systems would be more than compensated by increasing the number of measurement nodes, and placing them in an array configuration. Such arrays would have the possibility to substantially increase the verification capability of a noble gas network. A new project at FOI has been launched to develop a prototype system that can be used in such arrays. Project status and plans, including recently performed simulations, will be presented.

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