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## First results of the ACCESS project

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The ACCESS (Array of Cryogenic Calorimeters to Evaluate Spectral Shapes) project aims to develop cryogenic calorimeters to perform a precise study of the spectral shape of forbidden  $\beta$ -decays. These strongly suppressed processes can help to clarify the long-standing issue of the axial coupling constant ( $g_A$ ) quenching involved in nuclear physics calculations. Moreover, such rare decays are also a common source of systematic uncertainty in Dark Matter and Neutrinoless Double Beta Decay experiments, where detailed knowledge of the shape of the background spectrum is required.

In this contribute, we will present a brief review of the ACCESS research program, aiming to study both natural ( $^{113}\text{Cd}$  and  $^{115}\text{In}$ ) and synthetic isotopes ( $^{99}\text{Tc}$ ). The main attention will be dedicated to the current status of the research program and recent promising results achieved for  $^{115}\text{In}$  with an InI-based cryogenic calorimeter. The physics data acquired over 300-h-long cryogenic run will be presented. The InI detector demonstrates an excellent compromise to optimize simultaneously the signal yield and the detector response function, avoiding efficiency loss induced by a high counting rate. Further measurements of the InI crystal to collect higher statistics are on the schedule.

### Submitted on behalf of a Collaboration?

Yes

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