

MINOS: description and capabilities

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Summary

MINOS (acronym for MagIc Numbers Off Stability) is a device dedicated to perform in-flight gamma spectroscopy of extremely exotic nuclei in knockout reactions. It consists of a thick liquid hydrogen target (15-20 cm) surrounded by a TPC acting as a tracker. The vertex position is reconstructed from the direction of the emitted protons detected in the TPC and the beam. In this way one can profit of the increase of luminosity (up to one order of magnitude) due to the thick target without losing resolution in the Doppler correction, as would occur if the vertex position in the target was not measured.

MINOS will be ready since the beginning of 2014 to perform experiments at RIKEN coupled with the DALI2 gamma array and the SAMURAI or ZeroDegree spectrometer.

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