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P08 - Setup and First Results of the New External Micro-beam of the 5SDH Tandem Accelerator at LAEC

Friday, 11 July 2014 13:00 (1 hour)

Recently, a new external micro-beam was commissioned at the 1.7 MV tandem accelerator of the Lebanese Atomic Energy Commission. Despite the use of a RF ion source, it was possible to steer a measurable beam and extract it into air. The setup is performed using an assembly of object slits, collimating slits and two quadrupole magnets from “Oxford Microbeams”. A description of setup and its performance will be shown, as well as some preliminary results of two case studies, such as the localization of nanoparticles in superconducting materials and metals retention in micro-porous polymers.

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