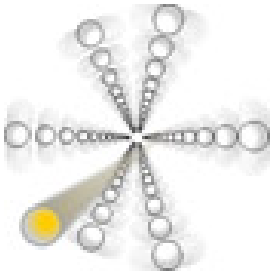

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SPARC Beamline Optimization for Channeling Experiments

Monday, 24 September 2012 19:24 (1 minute)

The SPARC facility at LNF delivers 150MeV electron beam with high quality. In this work the "dogleg"area of the SPARC facility is evaluated for a planned channeling experiment which is a pilot investigation for future positron source experiments. The beam optics simulations for the dogleg section is done up to a crystal and the beam characteristics and the beam spot on the crystal is simulated with G4beamline simulation package which mainly extends GEANT4 toolkit [2]. Further a preliminary optimization study for a near future setup for the detection system and shielding requirements for the background sources have been done with the same simulation package.

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