

Energy deposition studies for synchrotron radiation (SR) in the FCC-ee arcs in FLUKA

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SR represents a major loss source in high energy lepton colliders, such as the FCC-ee. At a beam energy of 182.5GeV, its spectrum makes it penetrate well beyond the vacuum chamber walls. In order to optimize its containment, dedicated absorbers are envisaged. Furthermore, energy deposition studies were performed to develop a shielding layout in the tunnel with the aim of reducing the impact on the electronics.

Presenter: HUMANN, Barbara (Vienna University of Technology (AT))

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