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The measurement of electron beam transverse polarization at the circular electron positron collider

Electrons beam polarization is a crucial ingredient program for collider experiment. The high energy polarized electron beams can be used to test the mechanism of CP violation in electromagnetic interaction and are expected to unraveling the secrets of elementary particles.

we will discuss a possible method of measurement of electron transverse polarization at CEPC Z pole through Inverse Compton scatterings process, followed by developing analyzing power as fit function of MC simulation of the asymmetry distribution of the scattered electrons. The device and the details of the simulation methods will be described.

Time Zone

Asia/Pacific

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