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Polarized positron beam perspectives for DIS studies

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The recent PEPPo (Polarized Electrons for Polarized Positrons) experiment at the Thomas Jefferson National Accelerator Facility did open an easy and low-cost access to polarized positron beam through the efficient production of polarized positrons from the bremsstrahlung radiation of a MeV polarized electron beam. The application of this technique in the context of the upgraded CEBAF (Continuous Electron Beam Accelerator Facility) and the JLEIC (Jefferson Lab Electron Ion Collider) project allows us to investigate new features of deep inelastic and exclusive scatterings.

This presentation will discuss the current efforts of the Jefferson Lab Positron Working Group in the process of developing the physics case for a polarized positron beam at JLab 12 GeV and JLEIC.

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