



Contribution ID: 2394 Contribution code: MOPM081

Type: **Poster Presentation**

## Degrader beamline design at the CEBAF injector for machine acceptance studies

*Monday, 8 May 2023 16:30 (2 hours)*

A degrader device is being built at the CEBAF injector to degrade the electron beam phase space for machine acceptance studies. The electron beam is degraded through multiple scattering in a thin target before further transport in the injector beamline for injection into CEBAF. The degraded electron beam will approximate phase space distributions expected from a bremsstrahlung-based polarized positron source as in the PEPPo method. The effort is in broader support of the Ce+BAF positron capability that is currently under study. Two options for the degrader device are considered, and simulation results are presented.

### Funding Agency

Authored by Jefferson Science Associates, LLC under U.S. DOE Contract No. DE-AC05-06OR23177. The research described in this paper was conducted under the LDRD Program at Jefferson Lab for the U.S. DOE

### Footnotes

### I have read and accept the Privacy Policy Statement

Yes

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**Session Classification:** Monday Poster Session

**Track Classification:** MC2: Photon Sources and Electron Accelerators: MC2.T12: Beam Injection/Extraction and Transport