



Contribution ID: 565 Contribution code: SUP070

Type: **Poster Presentation**

Phase Space Tomography at FACET-II

Sunday 10 August 2025 15:00 (3 hours)

We present recent development of transverse phase space tomographic reconstruction techniques at FACET-II. We present implementation of such techniques in the FACET-II injector, and utilize it to characterize the two-bunch from photocathode configurations. We demonstrate the characterization of two-bunch phase space misalignment and its potential control and application in PWFA experiments. We also characterize the effect of transverse space-charge force by varying two-bunch charge ratio. We also present single-shot and multi-shot tomographic reconstruction of electron spectroscopy image for PWFA-accelerated beam characterization.

Please consider my poster for contributed oral presentation

No

Would you like to submit this poster in student poster session on Sunday (August 10th)

Yes

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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Session Classification: SUP: Sunday Student Poster Session

Track Classification: MC6 - Beam Instrumentation, Controls, AI/ML, and Operational Aspects