Contribution ID: **447** Contribution code: **WEP080** Type: **Poster Presentation**

Science enabled by the the FACET-II low-energy laser arm

Wednesday 13 August 2025 16:00 (2 hours)

The FACET-II 10 TW laser system enables a variety of studies ranging from plasma wakefield acceleration over laboratory astrophysics to strong-field QED. While we successfully improved the performance of the high-energy laser-arm has, the much more versatile low-energy arm has yet to keep up. We report on the currently ongoing efforts to improve the performance of the low-energy laser-arm performance. The improvements are expected to enable studies, such as ultra-low emittance electron beams from plasma accelerators, plasma lenses, and novel ultrafast beam diagnostics.

Please consider my poster for contributed oral presentation

No

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

No

Footnotes

Funding Agency

U.S. Department of Energy

I have read and accept the Privacy Policy Statement

Yes

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Session Classification: WEP: Wednesday Poster Session

Track Classification: MC3 - Novel Particle Sources, Acceleration Techniques, and their Applications