



Contribution ID: 15 Contribution code: **WEP085**

Type: **Poster Presentation**

The Compact Positron Source at SLAC

Wednesday 13 August 2025 16:00 (2 hours)

We present designs and plans for a compact positron source that can deliver low-emittance beams for experiments*. The source is based on a Penning-Malmberg trap. We discuss positron generation and extraction, with specific focus on bunch manipulation at the exit of the trap. We describe a number of exciting science opportunities enabled by the Compact Positron Source.

Please consider my poster for contributed oral presentation

Yes

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

No

Footnotes

- Compact source of positron beams with small thermal emittance. R Hessami and S Gessner, Phys. Rev. Accel. Beams 26, 123402 (2023)

Funding Agency

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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