Contribution ID: **317** Contribution code: **THP059** Type: **Poster Presentation**

ORTHOGONAL DIRECTIONS CONSTRAINED GRADIENT METHOD FOR BEAM OPTICS CORRECTION

Thursday 14 August 2025 16:00 (2 hours)

An Orthogonal Directions Constrained Gradient Method (ODCGM) has been developed and experimentally used for optimization and correction of H^- optical beam parameters for laser assisted charge exchange injection (LACE) experiments. LACE experiment requires precise tune up of H^- beam parameters for high efficiency stripping. High precision tuning of beam parameters cannot be done in one step due to miscellaneous errors of power supplies and other factors. Then, subsequent application of the optic correction method considered here can do fine tune up of the beam. A simple experimental demonstration of ODCGM is presented.

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

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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Session Classification: THP: Thursday Poster Session

Track Classification: MC4 –Hadron Accelerators