Contribution ID: **198** Contribution code: **THP085** Type: **Poster Presentation**

The Reconfiggler: A uniquely versatile wiggler

Thursday 14 August 2025 16:00 (2 hours)

Wigglers are periodic arrays of magnets with myriad applications in accelerator physics. Generally though, they are only tunable by adjusting the gap between jaws. Here, we present a wiggler based on diametrically magnetized cylindrical magnets with independently adjustable angle. This allows the realization of arbitrary (bandwidth constrained) magnetic configurations. We illustrate its application to the recently proposed "transverse wiggler" concept for transverse phase space control.

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

Author: MAJERNIK, Nathan (SLAC National Accelerator Laboratory)

Co-authors: PARRACK, A (University of California, Los Angeles); WISNIEWSKI, Eric (Argonne National Laboratory); ANDONIAN, Gerard (University of California, Los Angeles); HA, Gwanghui (Northern Illinois University); ROSENZWEIG, James (University of California, Los Angeles); POWER, John (Argonne National Laboratory); DORAN, Scott (Argonne National Laboratory); LIU, Wanming (Argonne National Laboratory)

Presenter: MAJERNIK, Nathan (SLAC National Accelerator Laboratory)

Session Classification: THP: Thursday Poster Session

Track Classification: MC2 - Photon Sources and Electron Accelerators