

Session Program

19-23 Oct 2026

ICFA Beam Dynamics Mini Workshop on Modern Optimization of Dynamic Aperture

***HPC/advanced computing for nonlinear
dynamics optimization (Matt Signorelli, Chair)***

Cornell University, Room 401 Physical Sciences

Thursday 22 October

09:00

HPC/advanced computing for nonlinear dynamics optimization (Matt Signorelli, Chair)

Session | **Location:** Cornell University, Room 401 Physical Sciences

09:00–09:30

Large computing campaigns and novel DA exploration techniques including ML in Xsuite

Speaker

Leon Van Riesen-Haupt

09:30–10:00

Open discussion: the derivatives beyond first order and TPSA for accelerators

Speaker

Georg Hoffstaetter

10:00–10:30

GPU parallelization and parallelization over accelerators rather than particles

Speaker

Joseph Devlin

10:30–11:00

Coffee Break

11:00–11:30

Heavy parallelization for injection efficiency and lifetime simulation in APS

Speakers

Louis Emery, Michael Borland

11:30–12:00

(ASPIRATIONAL) AmSC and shared infrastructures

12:00