

Session Program

19-23 Oct 2026

ICFA Beam Dynamics Mini Workshop on Modern Optimization of Dynamic Aperture

Early Indicators and Long-term Stability (Joseph Scott Berg, Chair)

Cornell University, Room 401 Physical Sciences

Wednesday 21 October

09:00

Early Indicators and Long-term Stability (Joseph Scott Berg, Chair)

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

09:00–09:20

Open discussion: early indicators of reduced dynamic aperture and their utility - discussion leader Scott

Speaker

J. Scott Berg

09:20–09:40

Island Population in Light Sources for TRIBS

Speaker

Suntao Wang

09:40–10:00

Full one-tori analysis

Speaker

Matthew Signorelli

10:00–10:20

Approximate invariant analysis for nonlinear beam dynamics

Speaker

Yonglun Li

10:20–10:50

Coffee Break

10:50–11:10

Neural normal form for storage ring

Speaker

Yunhai Cai

11:10–11:30

DA Optimization with machine learning for SuperKEKB

Speaker

Taichiro Koga

11:30–11:50

ML method for DA training

Speaker

Derong Xu

11:50–12:10

Resonant extraction simulation and optimization

Speaker

Eiad Hamwi

12:10