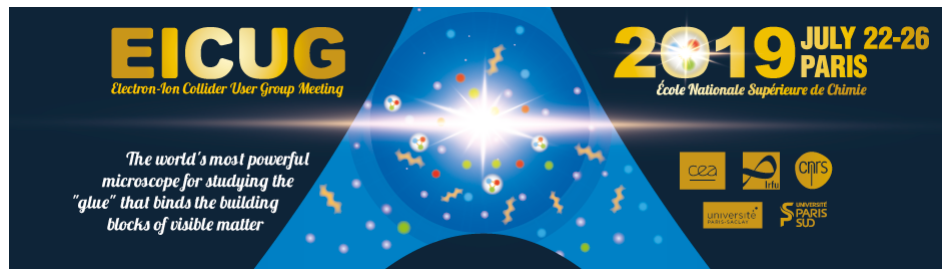


## 2019 EIC User Group Meeting



ID de Contribution: 19

Type: Non spécifié

# Dynamic Aperture in Electron and Ion Colliders

*mardi 23 juillet 2019 16:00 (25 minutes)*

Dynamic aperture, defined as a stable region in the six dimensional phase space, is always a challenging design issue in circular accelerators. In hadron rings, it is largely determinants by the magnetic errors in the superconducting magnets in arcs at injection and in the final focusing quadupoles at the collision. In electron machines, it is dominated by the sextupoles that are introduced for chromatic compensations. In this paper, we will review methods of optimization of dynamic aperture and their applications to the electron ion colliders.

**Orateur:** CAI, Yunhai (SLAC)

**Classification de Session:** Accelerator R&D