

ICFA Mini Workshop on Higher Order Modes in Superconducting Cavities (HOMSC2018)

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Type: **Oral presentation**

JLEIC HOM damping study

Wednesday, 3 October 2018 10:00 (30 minutes)

The JLab Electron-Ion Collider (JLEIC) proposed by Jefferson Lab is a high luminosity collider consists of a few high current sub-complexes, including a 3-12 GeV electron collider ring with up to 3 A beam current, a 20-100 GeV ion collider ring of up to 1 A, and a 20-55 MeV circulation bunched electron cooler ring with up to 1.5 A. Beam induced HOM problems are prevalent in the RF systems of all these accelerator sub-complexes. In this talk, we will present our preliminary HOM damping study in these RF systems.

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Session Classification: Design of SRF Cavities and HOM Damping Schemes