Contribution ID: **64** Type: **not specified**

Development of brazeless accelerating cavities

Tuesday, 20 April 2021 07:30 (30 minutes)

Recently Euclid Techlabs has developed a few X-band accelerating structures using a novel brazeless fabrication approach. Structures are targeted to different applications. It includes a side coupled accelerating structures for medical linac with an improved 133 MOhm/m of shunt impedance, a short-pulse wakefield power extractor, and a low energy accelerator. These structures have been tested at SLAC, ANL, and Euclid respectively. We will report the experimental results, in particular discussing breakdowns for each type of structure, either magnetic field or electric field induced.

Presenter: JING, Chunguang (Euclid Techlabs)

Session Classification: Session 3