



Contribution ID: 53

Type: **Oral**

Status of C-Band Testing Infrastructure at RadiaBeam

Tuesday, 17 October 2023 15:10 (20 minutes)

RadiaBeam has developed C-band testing infrastructure to support a diverse array of structure and beam testing programs. The core capabilities revolve around a pair of E37212 Canon klystrons driven by K300 Scandinova modulators delivering 1.2us, 100Hz operation with peak RF powers of 25MW and 50MW. The infrastructure includes multiple phase shifter power splitters and high directivity directional couplers developed by SLAC, a fully evacuated waveguide network, a highly flexible LLRF system with pulse shaping capabilities and two large concrete test cells. Commissioning results along with examples of devices we have tested with the system will be presented.

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Session Classification: Afternoon session