

Eighth CW and High Average Power RF Workshop



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Type: **Oral presentation**

A New 9MHz Cavity Design for RHIC

Friday, May 16, 2014 9:30 AM (30 minutes)

A new 9MHz RF system operating at 180KV per ring is required to increase the luminosity of low energy gold ion collisions at the Relativistic Heavy Ion Collider. In order to accommodate all planned collision energies each cavity will be required to operate between 8.7MHz and 9.4MHz while continuously providing 60KV of gap voltage. The proposed design includes a new capacitively loaded gap assembly that was specifically designed for this application. All pertinent design considerations and stress analysis performed to this point will be presented and discussed.

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