

Dielectric Loaded HPRF Update

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IIT

MAP Weekly Meeting

November 13, 2015

Since Last Meeting (10/23)

- Reassembled cavity with 99.8% alumina insert
- Collected data on 11/5 & 11/6
 - Recreate Paschen curve (see next slide)
 - 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30 atm
- Collected data on 11/12 & 11/13
 - Continuation of Paschen curve
 - 40, 50, 60 atm
 - Repositioning of acoustic sensors
 - Dry air doping
 - 1% O₂ for 50 → 2 atm
- Analysis ongoing

Paschen Curve

- All alumina data with pure N₂ as of 11/6:

