

*** *Beamline HOM loads***

- * Ferrite HOM Load Surrounding a Ceramic Break (L. Hammons, 20 min)**
- * Absorbing materials for beamline absorbers: How good is good enough? (N. Valles, 20 min)**
- * Experience with the Cornell ERL beamline absorber prototype and future plans (E. Chojnacki, 30 min)**
- * Resonant HOM load made of a resistive material (V. Shemelin, 20 min)**
- * Test of the Beam Line Absorber at FLASH (J. Sekutowicz, 20 min)**
- * Cooling test of HOM absorber model for cERL in Japan (M. Sawamura, 30 min)**
- * Operation Experience of HOM absorbers at KEKB (T. Furuya, 20 min)**
- * Beamline absorber work at Muon Inc (R. Johnson, 20 min)**
- * Design and Application of the High-Efficiency HOM Absorbers at PEP-II (A. Novokhatski, 20 min)**
- * Discussion: beamline absorbers (all, 40 min)**

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- * Effective HOM damping frequency range
- * Measured and/or simulated HOM Q-values for given cavity design vs. frequency (no BBU simulation results!)
 - * Cornell, DESY, BNL, KEK designs
- * Maximum HOM power handling and extraction
 - * What is the optimal operating temperature?
 - * Heat transfer and thermal connections
 - * Estimate of the heat load to ~2K and all other intercept temperatures at full HOM power
- * Coupling to the fundamental mode and suppression
- * Cleanness challenges and solutions
 - * Cleaning of absorber materials
 - * Risk of particle generation?
 - * How to quantify the absence or presence of RF absorber material particulate generation that could spoil the Q of nearby SRF cavities?
 - * Coatings?

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- * Extra beamline length required per cavity (compared to linac without HOM damping)
- * Mechanical / fabrication challenges and solutions
 - * Are bellow sections between cavities needed / desirable?
 - * Heat intercept and static heat loads to cavities
 - * Brazing, soldering, metallization of ceramics/ferrites to heat sinks.
 - * Absorber tiles vs. rings
 - * Accurate mechanical modeling that includes plastic deformation of material.
- * Cost vs. design and material choices
 - * Thermal matching of heat sinks to ceramic/ferrites
 - * Copper coating of beam pipe sections or stainless steel?
- * Other challenges, limitations and solutions