Possible ANL Contribution Ali Nassiri - ANL



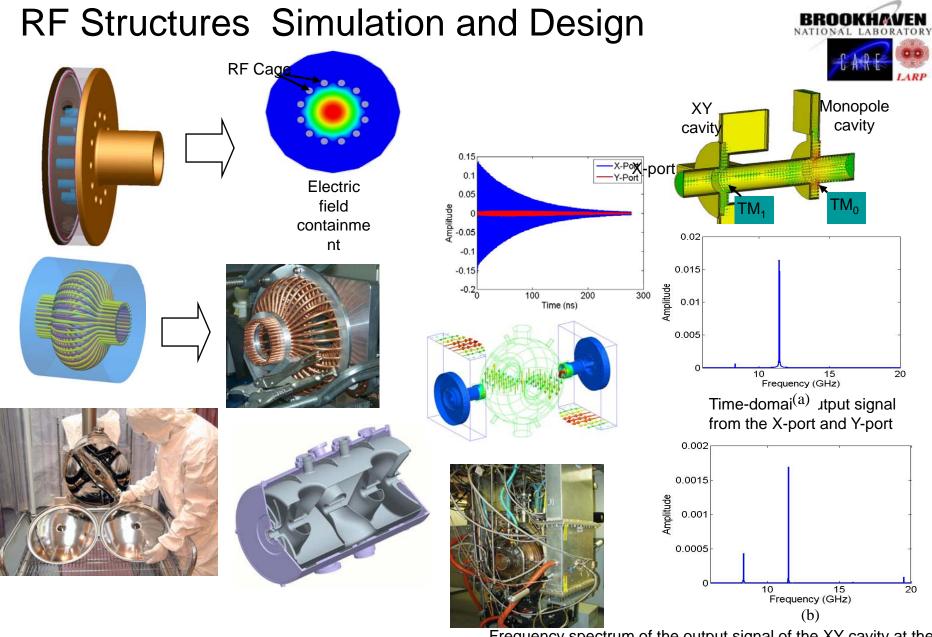
- Beam Dynamics
- RF and thermal modeling and anlaysis
- SRF Facility
- Injector Test Stand
- ■RF Test Stand
 - 352 MHz CW (autonomous)
 - 2856 MHz Pulsed (autonomous)



Beam Physics

Advanced Simulation and modeling

- Customized lattice design
- BBU
- Space charge effects
- CB and MB instabilities
- Laser-plasma simulations
- CSR
- Wakefields
- Collective effects
- Electron cloud effect
- Laser methods in accelerators
- Radiation modeling for shielding

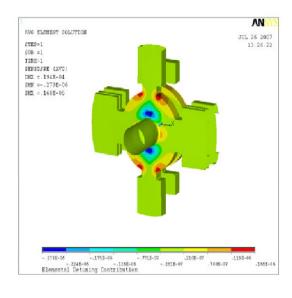


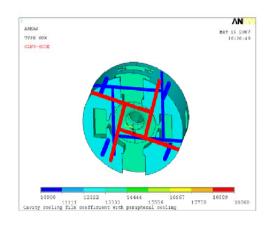
LHC-CC08

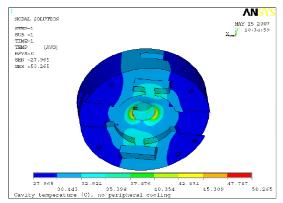
Frequency spectrum of the output signal of the XY cavity at the (a) X-port and (b) Y-port

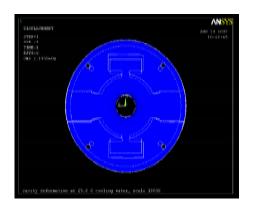
Thermal Analysis



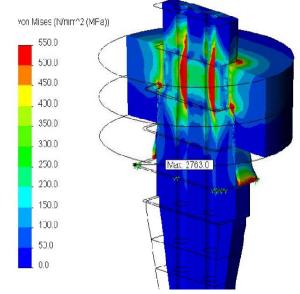








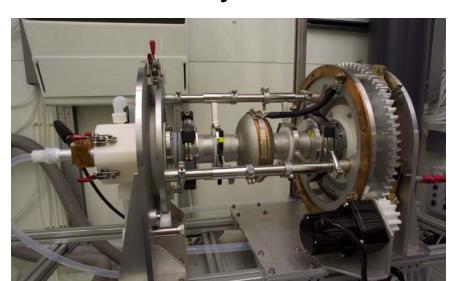
Model name: Complete small damper w SiC neck Waler Coolec Study name. Study 3 Hot type: Static nodal stress Stress1 Deformation scale: 50



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ary 26, 2008

SRF Facility

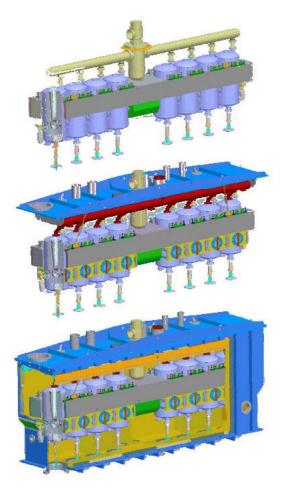










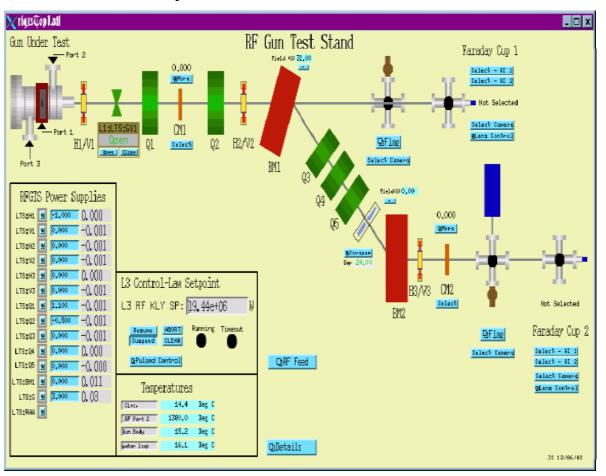


February 26, 2008

Injector Test Stand



New Linac Injector Guns





352 MHz Test Stand









LHC-CC08

February 26, 2008