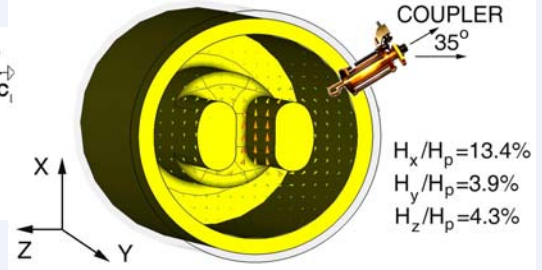
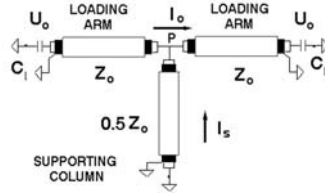
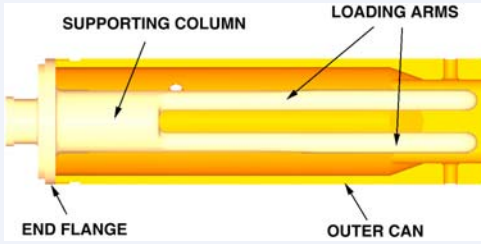
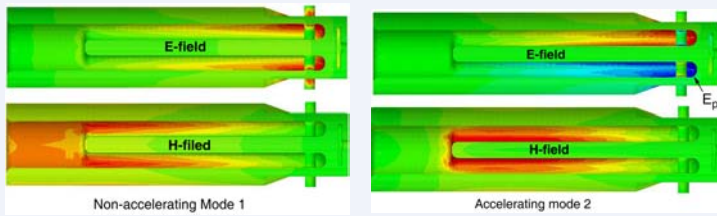


DESIGN: $\beta=5\%$ 150 MHz

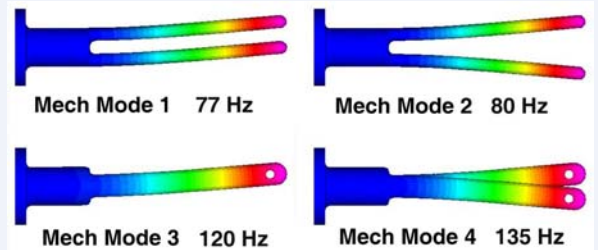
COUPLER: H-loop



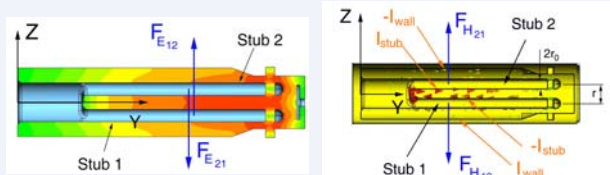
RF MODES: MWS



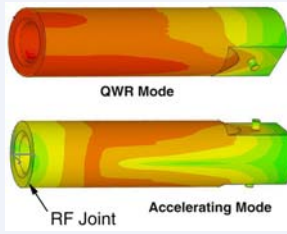
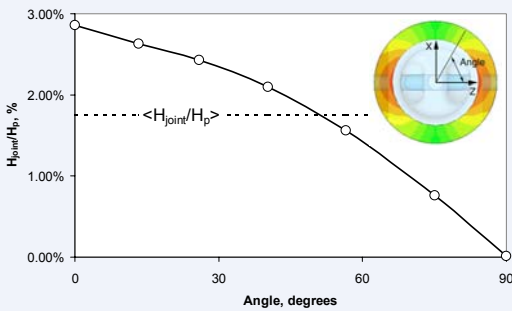
MECHANICAL PROPERTIES



Parameter	MWS
RF Mode 2, MHz at 300 K	152.0
E_p/E_{acc}	5.4
B_p/E_{acc} , mT/(MV/m)	13.6
Stored Energy, mJ/(MV/m) ² at $E_{acc}=1$ MV/m	28.4
E_{acc} , MV/m at $J=1000$ mJ	5.9
RF Mode 1, MHz at 300 K	119.4



RF LOSSES

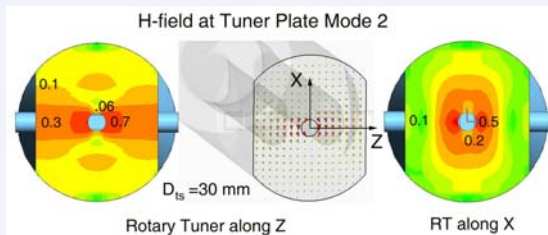


H-field in OUTER WALL

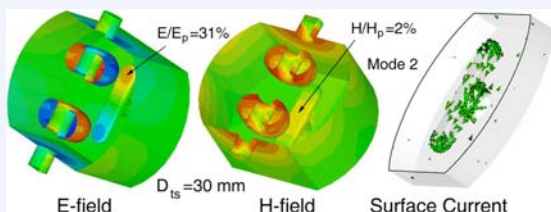
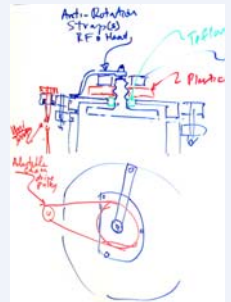
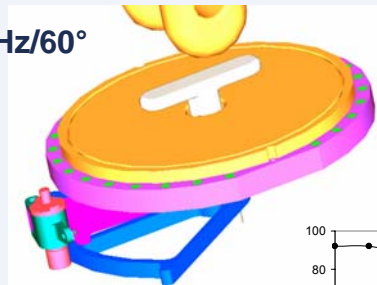
E, H fields scaled to	Pb	Nb
Electric force F_{E_i} , N	1.11	4.53
Y_{E_i} , m	0.269	0.269
Magnetic force F_{H_i} , N	1.43	5.8
Y_{H_i} , m	0.14	0.14
E, H -field scale factor	0.62	1.25
Ultimate E_{acc} , MV/m	3.7	7.4
Displacement ΔZ_{defl} , μ	0.8	3.3
$-k$, Hz/(MV/m) ²	14.6	15.0

RF GASKET: $H/H_p < 3\%$

NOVEL ROTARY TUNER



30 kHz/60°



small driving force =
low-backlash

