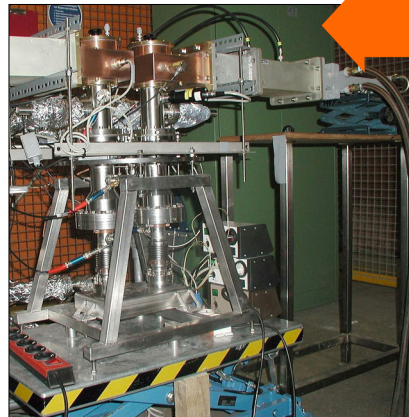
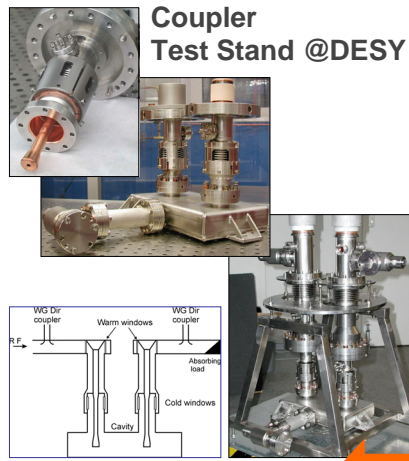
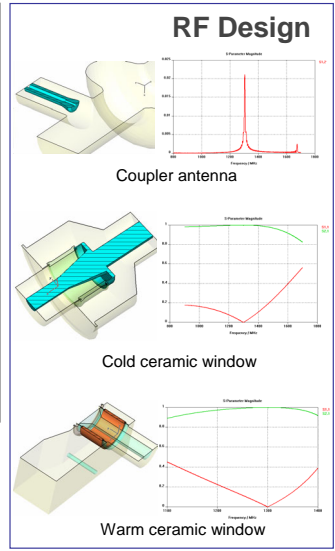
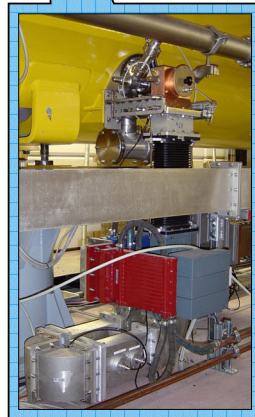
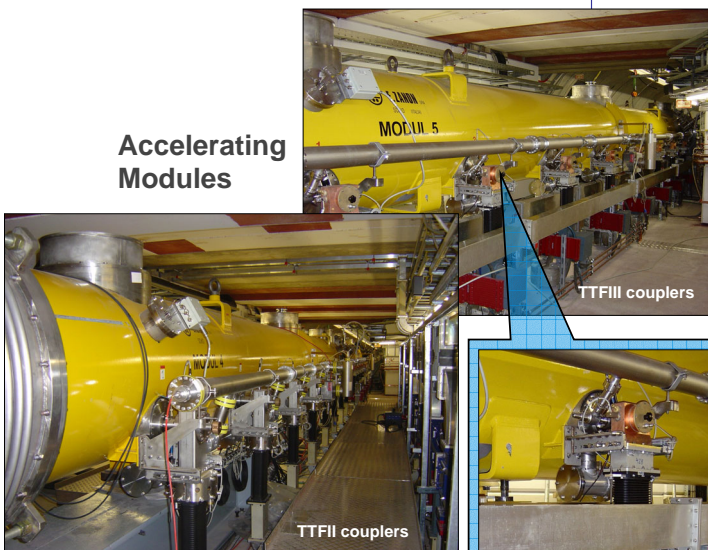
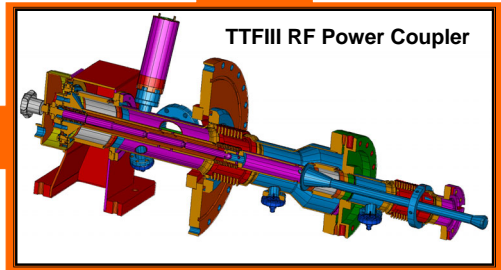
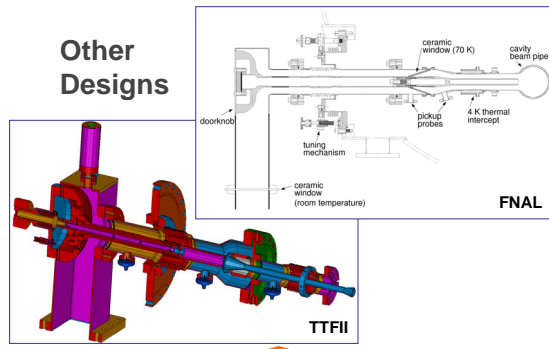
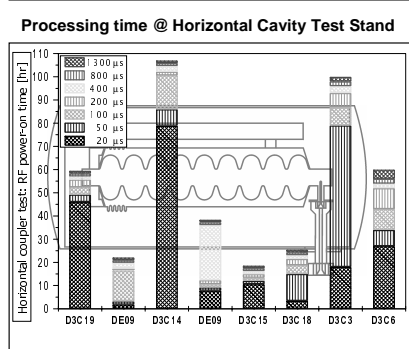
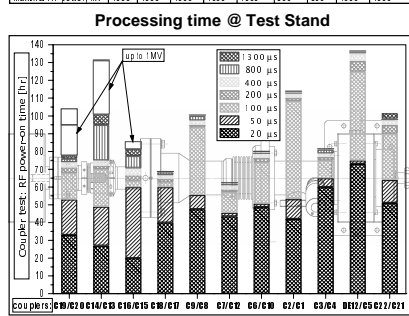


TTF RF Power Couplers

In collaboration with: LAL, Orsay



	Bas ic processing							Extra processing	
Pulse length, μs	20	30	100	200	400	800	1300	800	1300
Maximal RF power, kW	1000	1000	1000	1000	1000	500	300	1000	1000



Different RF power couplers for TESLA Test Facility (TTF) are under development and operation. TTF power couplers type II which were used together with "FNAL" couplers have been improved by design of coupler TTF III. RF power couplers are tested normally with full RF power, at first two couplers on a test stand and afterwards each coupler together with its superconducting cavity in a horizontal test cryostat. Results of coupler tests showed stable operation at full pulse length of 1.3 ms and RF power even up to about 1 MW without breakdowns. The average power needed for cavity operation at about 25 MV/m is 230 kW.