

SPIRAL II HIGH INTENSITY RADIO FREQUENCY COOLER

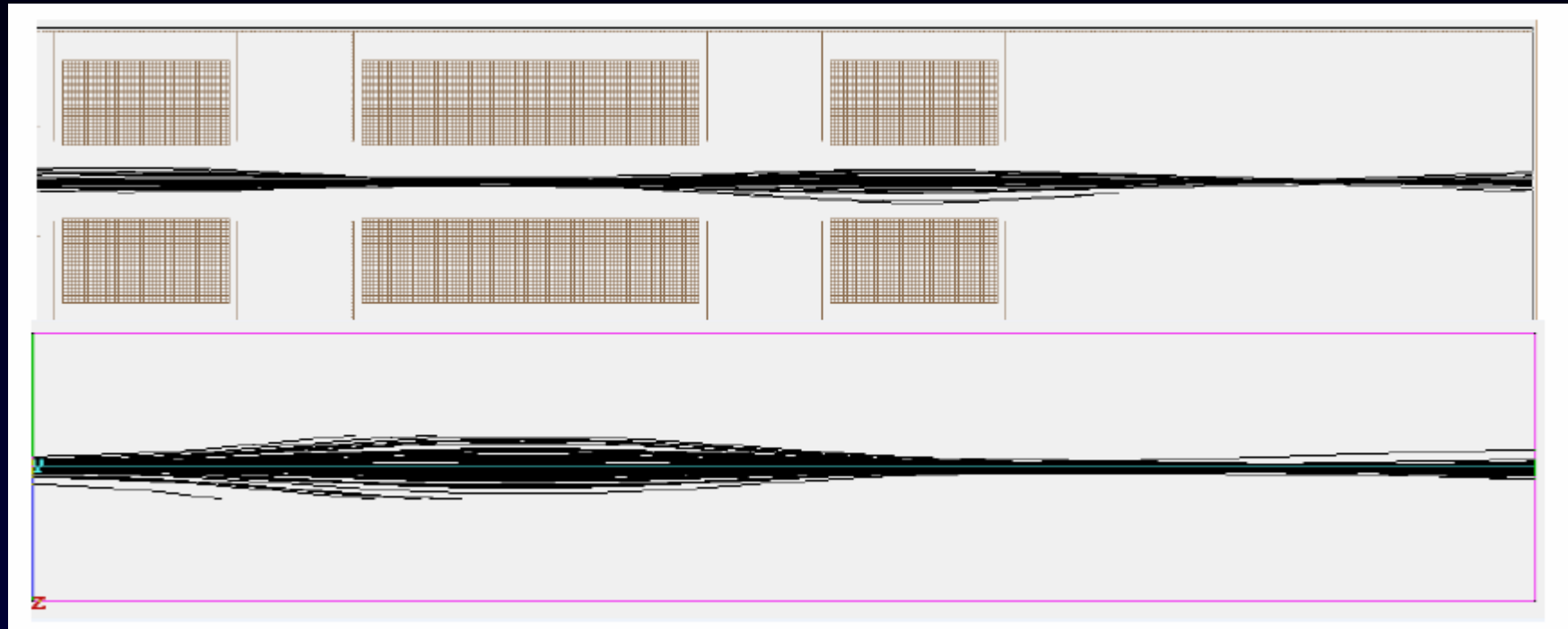
a.k.a. SHIRaC

STATUS REPORT

Since May

- Setup completed in JULY 2010...
Too optimistic Completion in mid october 2010
- Cooling of μA beams For HRS requirements to be confirmed in 2010-2011
- Couplings with HRS : Quad Triplet OK with injection
Emittance $\sim 2 \text{ Pi}$
 $\Delta E \sim 5 \text{ eV}$
transmission through 1 mm slit $\sim 50\%$
- Nuclear environment

TRIPLET (R Boussaid)



Elec Quad Triplet for injection

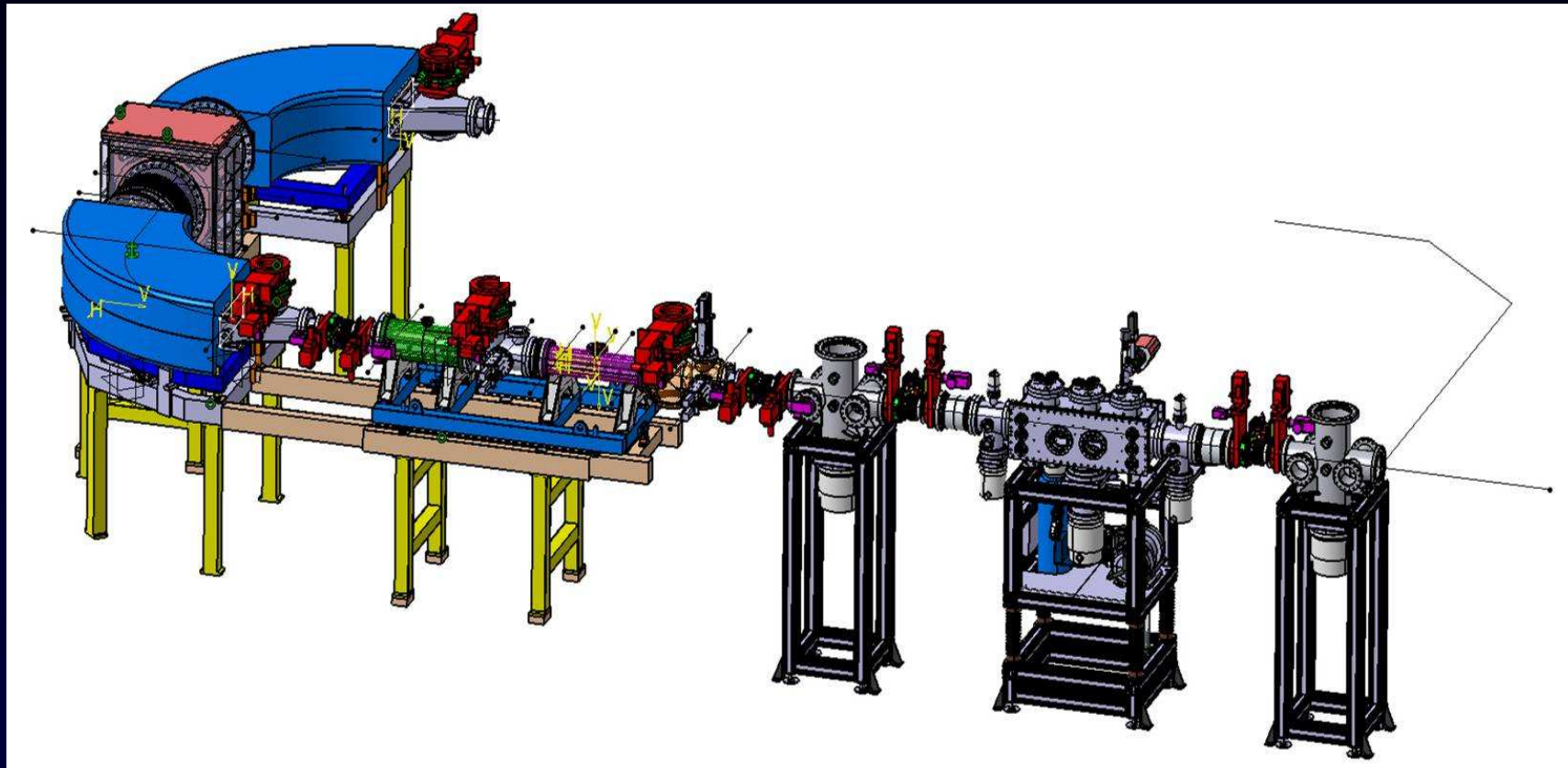
Compact 500 mm long

~OK for injection

Construction underway will be tested with the whole setup

SHIRAC HRS Coupling

Too long for the building (TKN Talk for solution)



Double Valves makes it longer working on shortening the cooler module
Present length ~4 m

Next Steps

SHIRAC testing with low intensity then high intensity

Optimization of coupling transmission, energy spread

Shortening of the cooler