

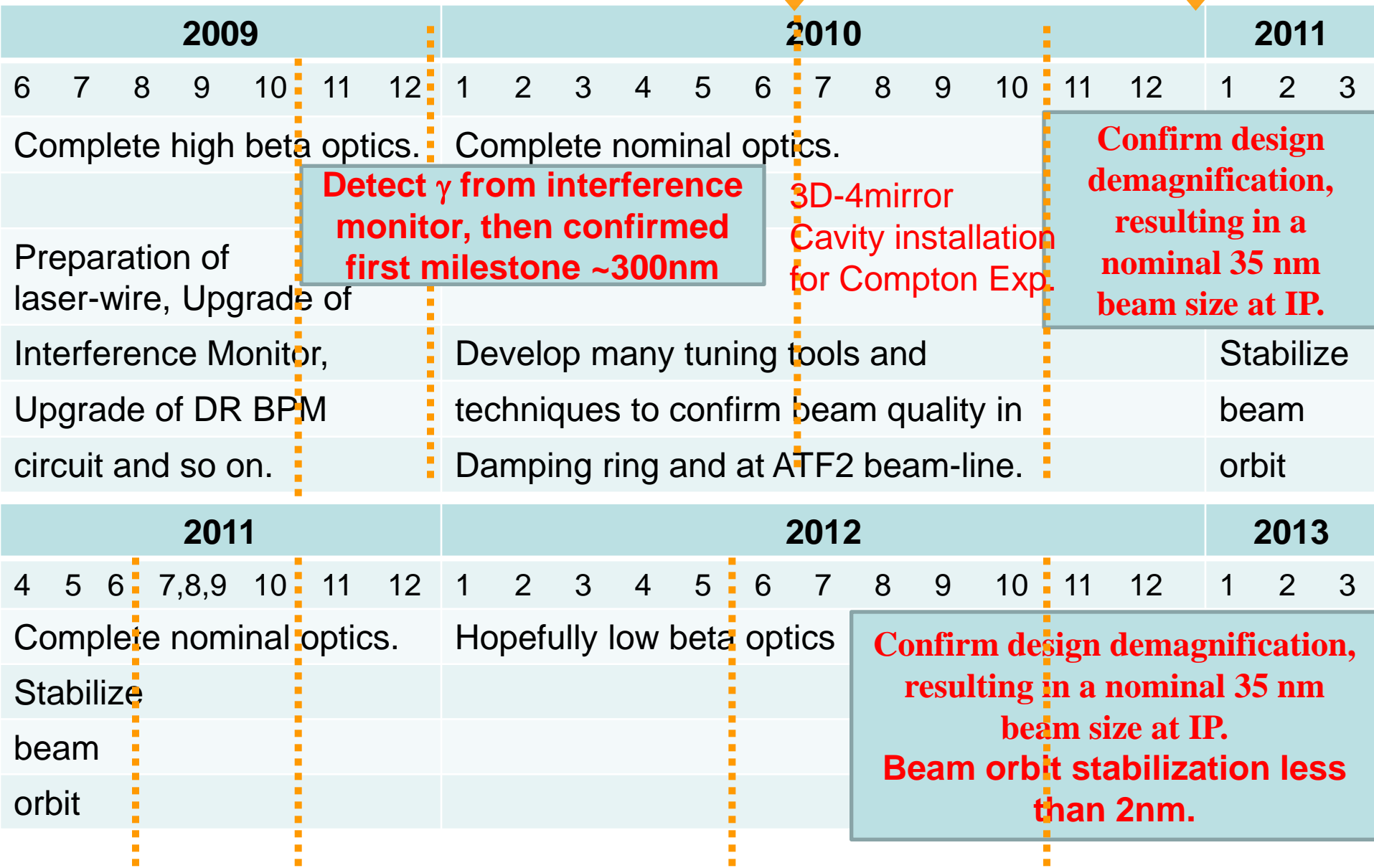
Greeting for 10th ATF2 project and TB/SGC joint meeting



ATF2 operation schedules (by JFY2012)

We are here.

Hopefully less than 70nm





There are lots of research programs at ATF.

ATF includes beam source developments, damping ring activities, ATF2 research programs and training for young researchers.

Hardware development:

Hardware system development **with beam** should be smoothly on-going and we can **make the priority** if necessary.

Also, hardware system development **without beam** should be accepted if it does not conflict with other research programs.

Ask ATF-TB to get approval.



Essential points for our R&D activity at ATF2

Software system including the flight simulator , also usual software tools for operation and beam tuning including the upstream beam lines are essential to make visible progress.

ATF2 Optics studies with alignment errors are also essential to achieve our main goal.

Precise realignment is necessary with detail information from the optics study group.

Necessary Deliverables from TF for BDS and DR



Test Facility	Deliverable	Date	
<i>Hardware development, Optics and stabilisation demonstrations:</i>		<i>JFY</i>	
ATF	Demo. of reliable operation of fast kickers meeting the specifications for the ILC damping ring. (still need modification of pulser)	2010	2011
	Generation of 1 pm-rad low emittance beam (4pm-rad)	2009	2010
ATF2	Demo. of compact Final Focus optics (design demagnification, resulting in a nominal 35 nm beam size at focal point). (300nm)	2010	2012
	Demo. of prototype SC and PM final doublet magnets (Pending)	2012	?
	Stabilisation of 35 nm beam over various time scales.	2012	2012
<i>Electron cloud mitigation studies:</i>			
CESR-TA	Reconfig. (re-build) of CESR-TA as low-emittance electron test facility. First meas. of e-cloud build-up using instrumented sections in dipoles and drifts sections (large emittance).	2008	
	Achieve lower emittance beams. Meas. of e-cloud build up in wiggler chambers.	2009	
	Characterisation of e-cloud build-up and instability thresholds as a func. of low vertical emittance (≤ 20 pm)	2010	
DAΦNE	Fast kicker design and pulser reliability check	2010	
	Characterisation of e-cloud build-up and instability thresholds	2010	
SLAC/LLNL	Fast kicker pulser development	2010	

This is ILC GDE request.



Need a balanced coordination within limited machine time, man power, budget for visible progress.

Exchange of the knowledge from many research activities makes a nice synergy.

**Keep good collaboration and nice relationship at ATF,
then make wonderful progress.**