

Task	Start date	End date	Priority	Details	Status	Comments
Verification						
Missing energy	Aug-06	Sep-06	4	where does the energy go, detailed study of particles leaving the geomery	done (80%)	tracking -> Stefano report missing first results can be presented
Quench limits	Sep-06	Dec-06	3	how do the with FLUKA calculated power densities refer to the given quench limits (cell size) and what are the realted uncertainties		
Optics check at 450 GeV	Aug-06	Sep-06	4	verification of optics in the FLUKA simulation, 7TeV + 450GeV	done	ok for 7TeV, error found in 450GeV -> updated related results accordingly report missing results can be presented
Direct impact on hardware design						
Scraper	now	Sep-06	5+	What material, what length, what damage threshold		starting now, has to be shifted
Passive absorbers	ongoing	Nov-06	5	Heat load and cooling	done	power and heat deposition for magnets & pass. absobers reports are updated
Phase 2 design studies	Sep-06	Dec-08	4	Work must start in September 2006		will start now and continued together with the doctoral student
TCT damage levels	Oct-06	Jan-07	4	Decision for upgrade with more robust TCT's		
dpa predictions for collimators		Jan-07	3	No predictions yet: compare with experimental data		
Energy deposition with crystal TCP's			2	Feasibility of crystal-based collimation		
Understanding system performance						
Skew halo		Oct-06	4	No results yet - surprises	done	old reports were updated by MSL results can be presented
Include p losses in beamline		Dec-06	4	No results yet - Include losses in magnets (only collimators so far)		results have to be based on beam-gas details needed from Vac
IR3		Oct-07	3	Required as we cannot rely on IHEP for fast feedback (days)		
TCDQ limitations			3	Different cases and expected limitations	ongoing	according to the list of Brennan additional question raised by Stefano?
Beam 2		Oct-07	1	Only needed for completeness: no surprise expected		
Required information for commissioning						
Commissioning scenarios		Sep-07	3	5 collimation scenarios for best strategy		
Injection protection TCLI			2	Quench in case of injection errors?		
BLM studies			3	Traces of particles, detailed geometry, benchmark at CERF		oportunity to perform measurements at CERF
Injection protection TDI			1	Quench in case of injection errors?		
Support for LHC operation						
Analysis of observed loss points	Nov-07	-	5	Traces of particles		
Additional (short notice)						
Quenching of magnets due to 'obstacles'	Aug-06	Nov-06	5	obstacles were found in most of the magnets raising the question whether this leads to a quench	ongoing (75%)	detailed modelling of objects report missing