

Prioritized list of FLUKA collimation studies (RWA, 18-09-2006)

Task	Start date	End date	Priority	Details
Direct impact on hardware design				
Scraper	now	Sep.06	5+	What material, what length, what damage threshold
Passive absorbers	ongoing	Nov.06	5	Heat load and cooling
Phase 2 design studies	Sep.06	Dec.08	4	Work must start in September 2006
TCT damage levels	Oct.06	Jan.06	4	Decision for upgrade with more robust TCT's
dpa predictions for collimators		Jan.06	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
Include p losses in beamline		Dec.06	4	No results yet - Include losses in magnets (only coll. so far)
IR3		Oct.07	3	Required as we cannot rely on IHEP for fast feedback (days)
TCDQ limitations			3	Different cases and expected limitations
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 TDI/TCLI			2	Quench in case of halo load (need to check beam loss maps)
BLM studies			?	Traces of particles
Injection protection TCLIA/B			4	Damage protection in case of injection errors
Support for LHC operation				
Analysis of observed loss point:	Nov.07	-	5	Traces of particles