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Low Lumi Analyses

Soft Physics						
Process	σ	Required Events	Experiments	For Report?	Manpower	Notes
Soft Diffraction	10 mb	1 million	All	Yes	-	(1)
Particle spectra	> 10 mb	20 million	All	-	-	(1)
Energy flow	> 10 mb - μb	1 million	ATLAS, CMS, LHCb	Yes	-	(1)
Underlying Event	mb - μb	1 million	[ATLAS, CMS, TOTEM] (?)	-	-	(1)
Diffraction in Proton-Lead	> 10 mb	1 million	All	Maybe	-	-

(1) Investigate sensitivities to pp, pPom, PomPom using proton tag(s).

Events with a Hard/Semi-hard Scale						
Process	σ	Required Events	Experiments	For Report?	Manpower	Notes
Diffraction Dijet Production	2 nb	ATLAS, CMS, TOTEM	Yes	-	Good place to look at gap survival	
Central jet + identified forward p / n or π^0	O(μb)	O(thousands)	ATLAS, CMT, TOTEM	-	-	Neutrals unlikely at ATLAS
Exclusive Production	100 μb - 100 pb	O(thousands/channel) (?)	All	Select channels	-	$j\bar{j}, \pi\pi, ee, \mu\mu, \gamma\gamma, KK, pp, \chi_c, X(38)$

(2) To be split final state wise with medium lumi.

This topic: LPCCForwardPhysics > LowLumiAnalyses

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