Run II Special Runs

- 1) TOTEM High beta, low luminosity β^* =90m, Nbunch \leq 100 , reduced bunch intensity, μ ^ few %, L ^ 10^28 10^30 Hz/cm² RP approach 5-10 σ
- 2) TOTEM High beta, medium luminosity β *=90m, Nbunch ~ 1000 , μ ~ 0.5 , L ~ 10³¹ Hz/cm2 RP approach 10-15 σ

Goals: 7 pb⁻¹/day
Low pT CMS jets + TOTEM
for hard difffraction

3) TOTEM Low beta β^* =0.6m, Nbunch $^\sim$ 2800 , μ $^\sim$ 30-50, L $^\sim$ 10 33 – 10 34 Hz/cm 2 RP approach 15 σ

Q: Is a crossing angle envisioned?

ALFA:

- Can currently handle O(700) bunches, may be able to do O(900) maximum
 - Very dependent on backgrounds. To be taken as upper limits
- Maximum bunch intensity ALFA can handle under study.

DISCUSS:

• Should such a running scenario be dedicated to TOTEM+CMS or can moderate concessions in running conditions allow for joint ALFA+ATLAS data taking without jeopardising the physics goals of the run?