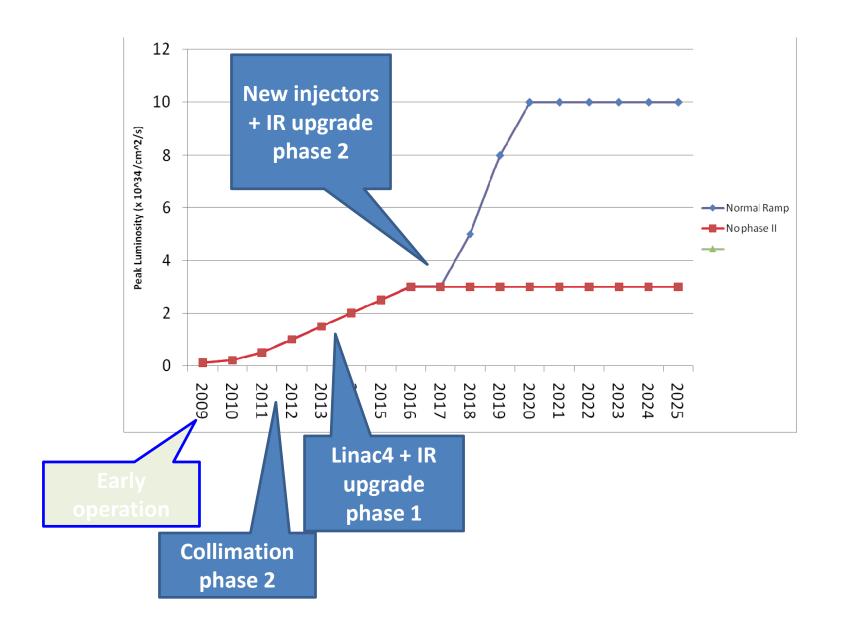
1st LHCC Upgrade Session

Wrap Up on Timescales

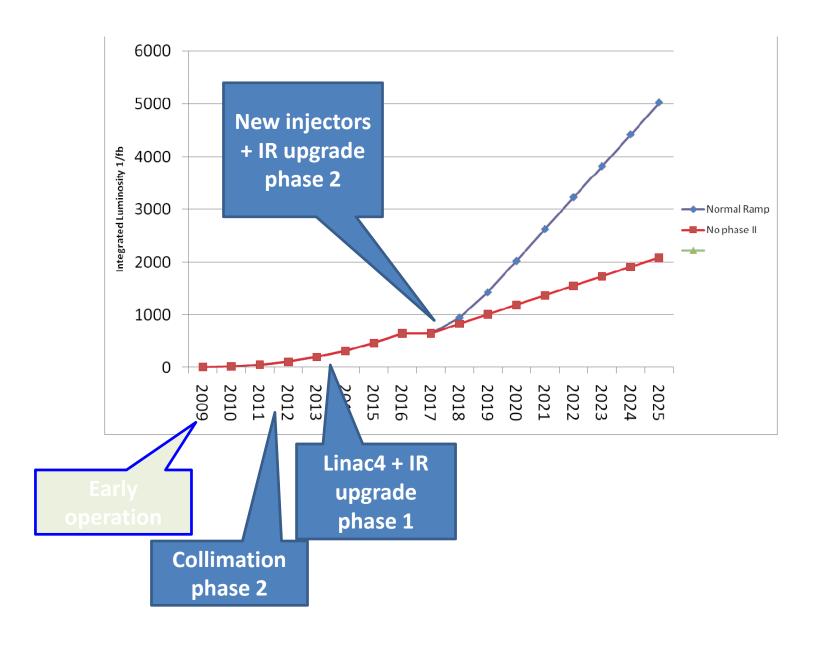
Terry Wyatt.

University of Manchester.

Peak luminosity...



Integrated luminosity...



Lumi evolution plots

- Should we get some kind of semi-formal agreement that this is what all players show
 - with a commitment to update this as thinking evolves
- Can we agree on CY2017 as target for long shutdown?

Phase I timescales

- Are very tight
- LHCC should evaluate phase I plans quite urgently
 - a natural focus for next evaluation meeting?

Phase II Timescales

- Very difficult to reconcile needed timescales for machine and experiments
- Compare:
 - Desire of experiments to submit TDRs by mid-2010 to get approval in time
 - Difficulty of getting LHC machine upgrade decisions by mid-2011 given R&D needed and speed with which currently being done
 - an opportunity for outside contributions here!!!
- Preference of experiments is clear:
 - Full Crab Cavity plus lumi leveling
 - Multiple interactions at 25 ns better than 50 ns (large Piwinski angle)
 - Avoids needs for dipoles inside detectors (Early Separation)
 - Lumilevelling clearly helps avoid excessive peak lumi at start of fill
- Butsince no one scheme is guaranteed to be brick wall free!
 - machine needs to continue to pursue various options
 - including those that are rather unpalatable for the experiments
- Experience of real running also an essential input to design
 - both for machine and experiments
- LHCC should ask for experiment LoI, TP, TDR, etc, on an agreed timescale
 - Lol mid-2009?
 - TP mid-2010?
 - TDR mid-2011?