

LHCb Responsibilities

- Geant4 within LHCb, overall framework
 - Physics aspects, maintenance, liaison
 - Tuning, physics lists, & etc.
 - Benchmarking and regression testing
 - Requires significant amount of technical work, interaction with new data presentation framework
 - Data management (previously Mark Slater)
- Charmless B decays WG, trigger liaison (Jimmy McCarthy)
- Rare Decays WG, Monte Carlo liaison (Luca Pescatore)
- Ongoing participation in analysis reviews
- Editorial Board deputy chairperson (NKW)

Upgrade

- *Upgrade, approved by Science Board – July 2014*
 - Details under negotiation with STFC
 - Radiation hardness testing on cyclotron (VELO and RICH)
 - Firmware for RICH front end

Analyses

- *Analyses – rare decays, charmless B decays, electroweak*
 - Jimmy McCarthy, (y3) $\Lambda_b \rightarrow \Lambda\eta/\eta'$
 - Luca Pescatore (y2) $\Lambda_b \rightarrow \Lambda\mu\mu$, incl. low q^2 and A_{fb}
 - Pete Griffith (y2) $\Lambda_b \rightarrow pK\mu\mu$ (and related)
 - Nathanael Farley (y1) B^+_c decays
 - Simone Bifani, electroweak, $W \rightarrow \mu\nu$ and $Z \rightarrow \mu\mu$ production cross-sections (just \rightarrow JHEP)
 - Simone, Luca, $R_{K^*} B^0 \rightarrow K^{*0} \mu\mu / B^0 \rightarrow K^{*0} ee$
 - (and Sasha's paper on χ_b accepted by JHEP last week)
 - + ...