

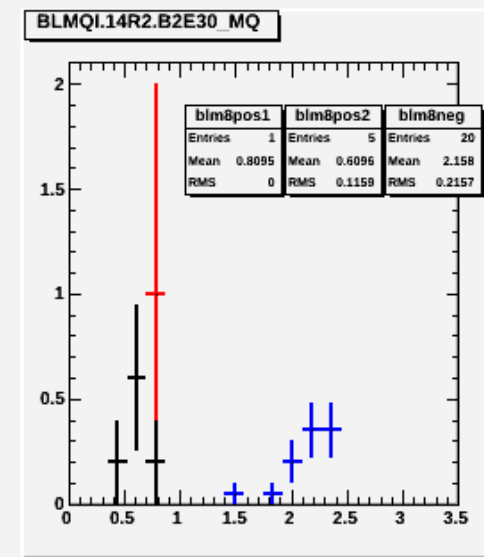
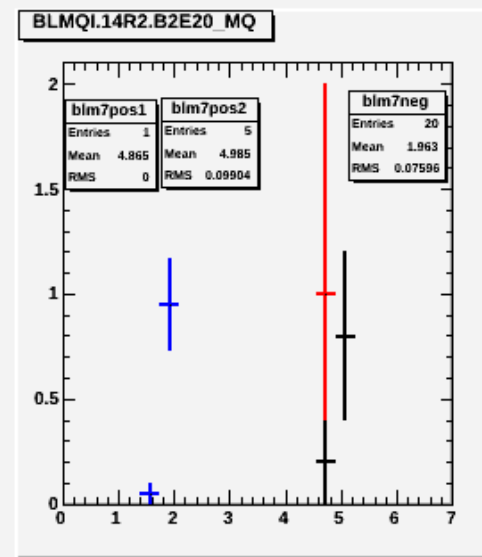
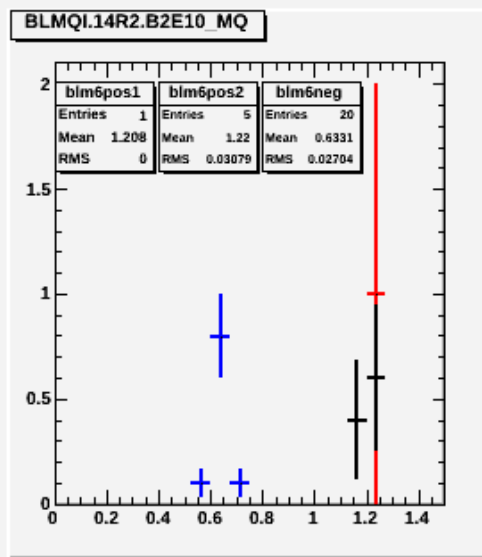
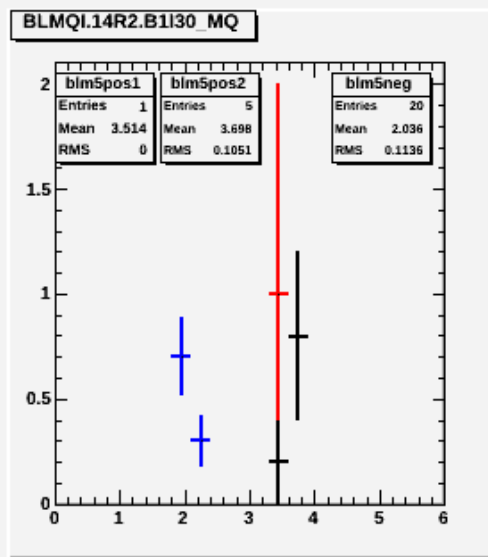
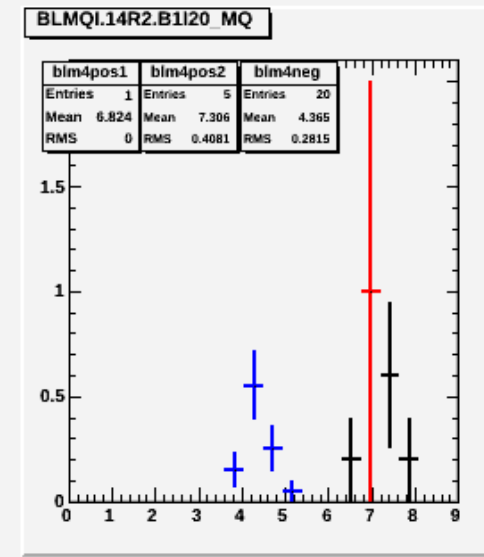
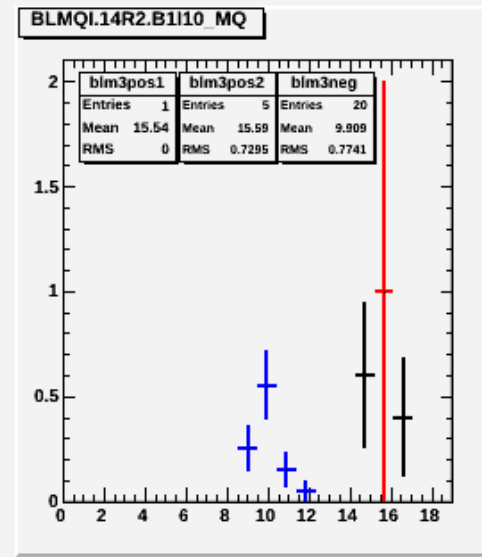
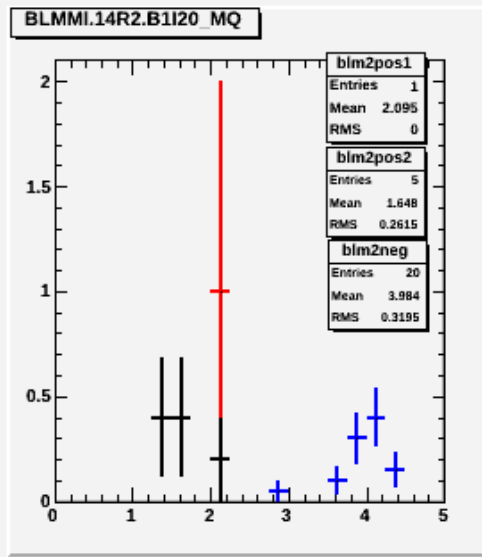
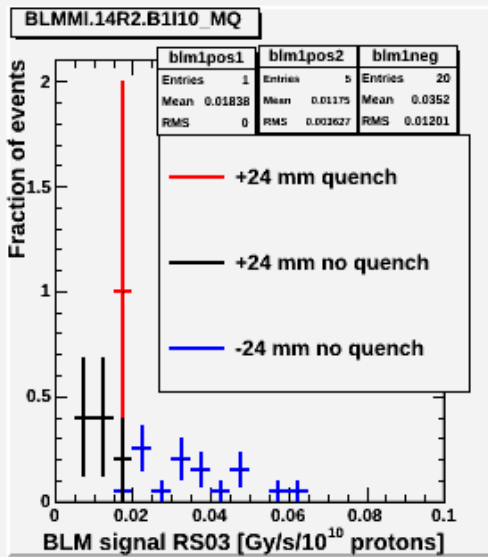
# BLM threshold aspects of R2E MD

M. Sapinski 2011.08.03, BLM Threshold WG

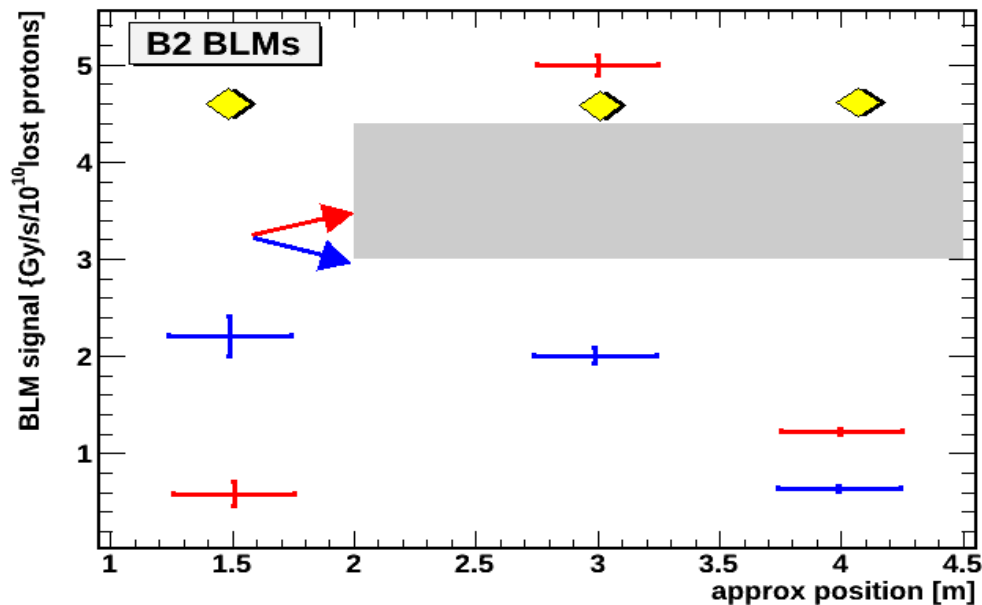
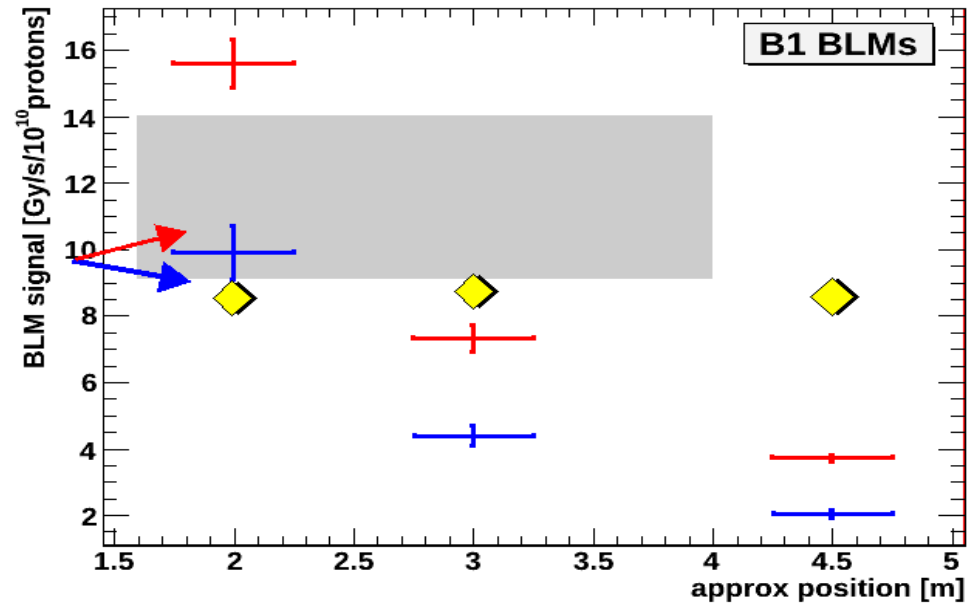
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- This MD was devoted to calibration of Radmons with respect to BLMs and lost protons.
- Additional BLMs were installed next to Radmons.
- Very large bump (24 mm) was created in 14R2, whole beam lost on MB magnet before MQ.
- Beam was in *injection and dump* mode.
- For Agnieszka's thesis we asked for a couple of shots with negative and positive bumps as we expected the difference, and this result is important for understanding the loss pattern.

# Distribution of BLM signals for positive and negative bumps.



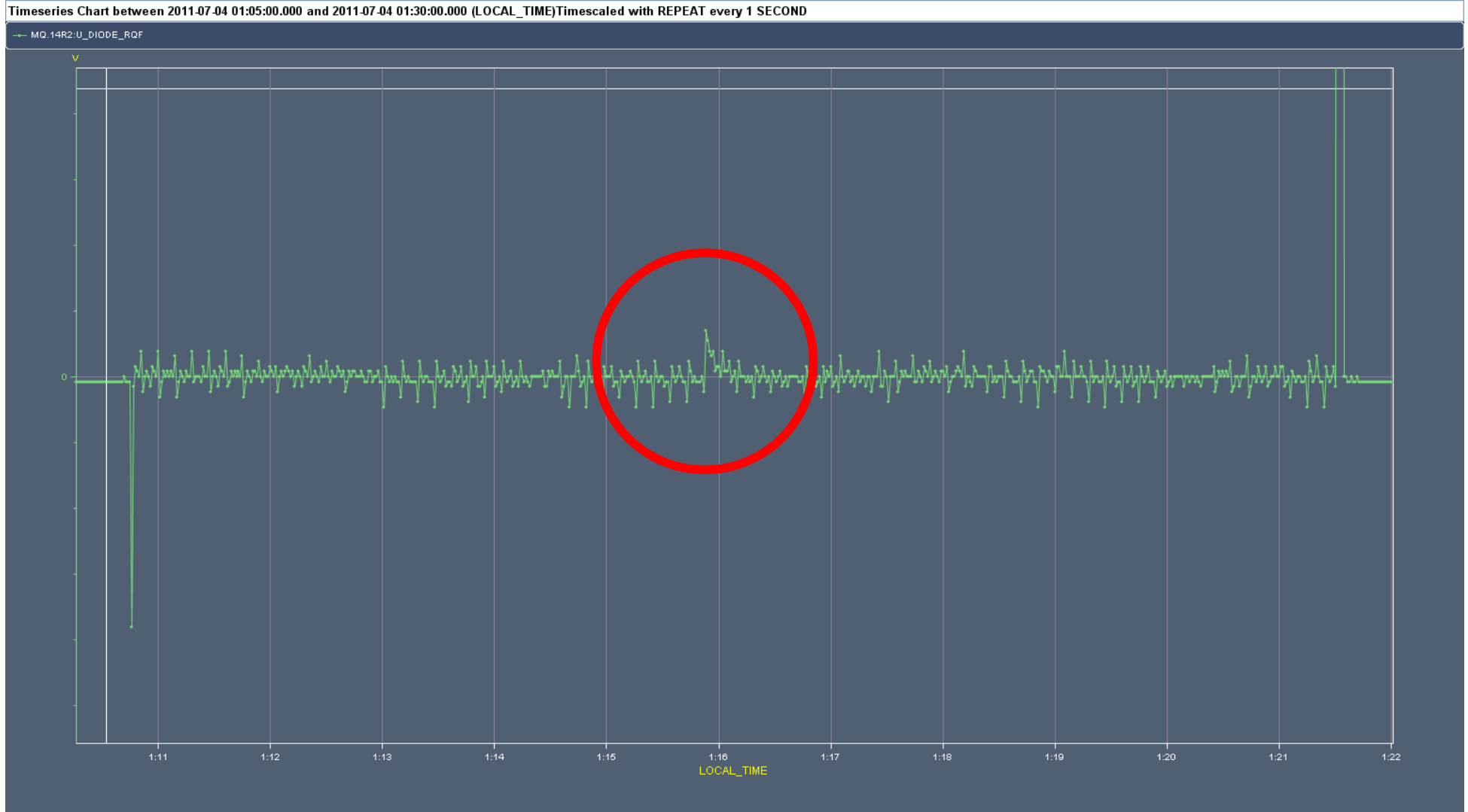
# Distribution of BLM signals for positive and negative bumps.



Obviously confusing results: why B1 BLMs see less signal in case of a negative bump?

- FLUKA simulations needed
- thresholds are set for vertical loss, which in simulation was a worse case than positive horizontal (tbc)
- it would be interesting to see if this behavior changes for smaller bumps (we have no really data, maybe something could be seen (October 6<sup>th</sup>, 2010, we have one quench with beam 1 horizontal loss at 450 GeV circulating beam)).

# Maybe observation of quenchino with standard QPS and Jens buffer



from Bozhidar