Variation in P0D response with time

Philip Rodrigues

University of Rochester

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Throughgoing $\mu$ response

- MPV from Landau-Gaussian fit
- Official production4 data. Both run periods
- One point per run. Merged small runs.
- 4 distinct regions
  - Jump at May 2010 is HV retuning
  - What are the others?
Throughgoing $\mu$ response, zoomed

Same data as before, just zoomed on run periods
Crosscheck: not the best sample for calibration

Same effects

Plus upturn when water taken out
Before and after May 2010

- From throughgoing $\mu$
- Change much smaller than before PDE-OV correction. Still a residual difference
Stopping $\mu$ node energy before/after correction

- Corrected stopping $\mu$ with MPVs from throughgoing $\mu$
- Scaled by overall constant to make peaks agree for plotting purposes
- Little change in width
Conclusions

- Need a way to find out what the jumps are
  - Any ideas?
- What other plots are useful for the calibration group?