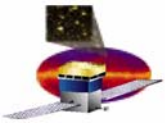
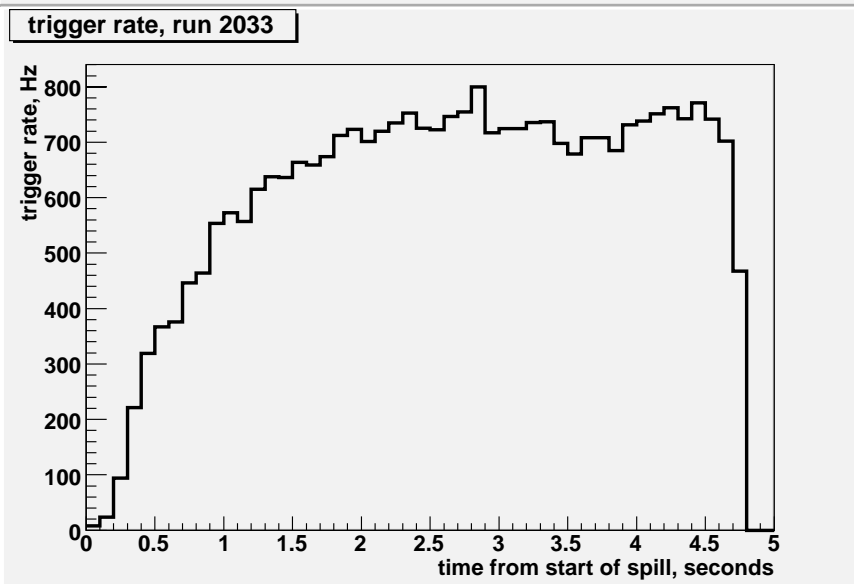
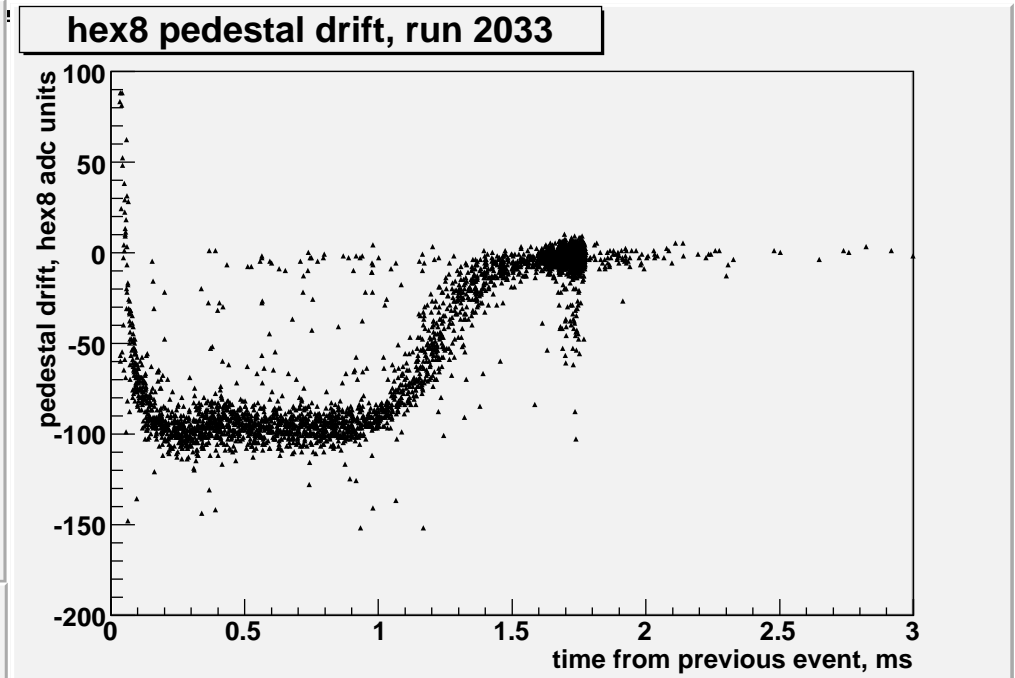
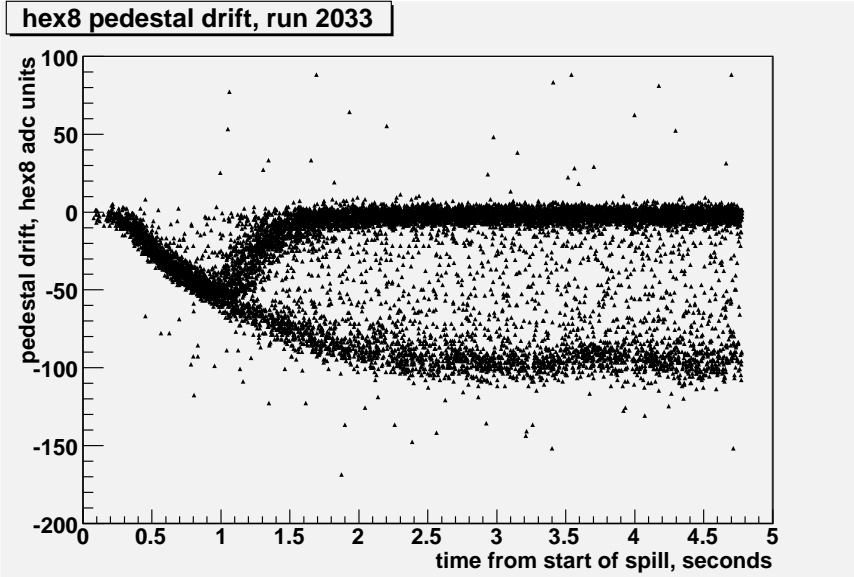


Pedestal drift study

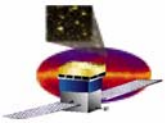
Alexandre Chekhtman
NRL/GMU



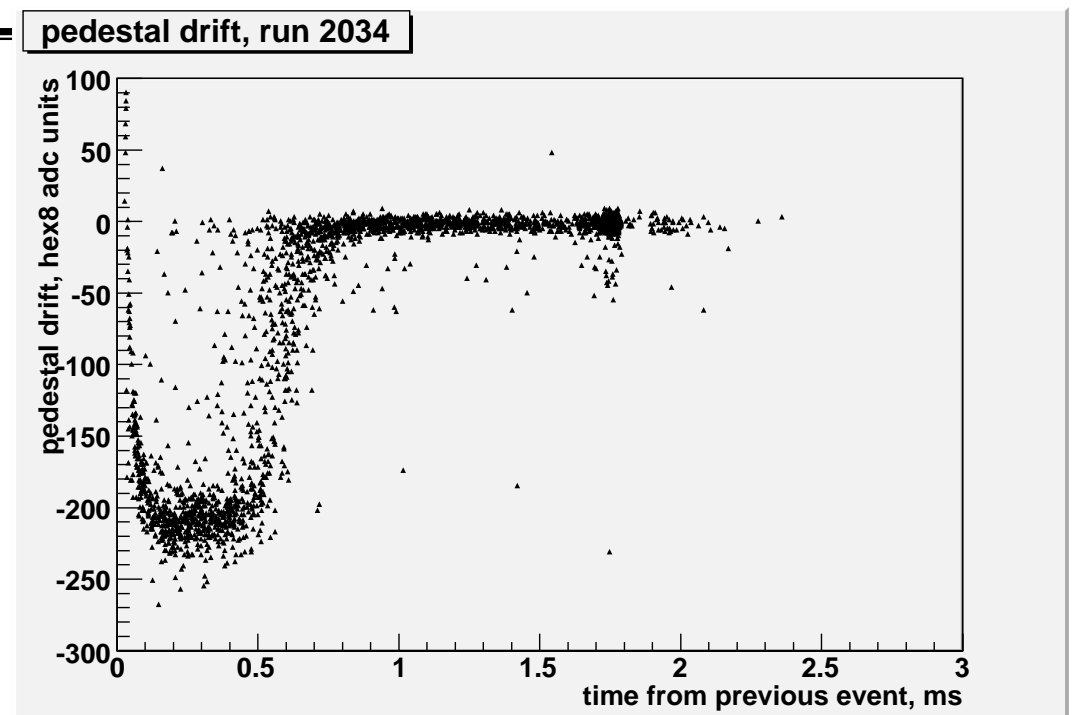
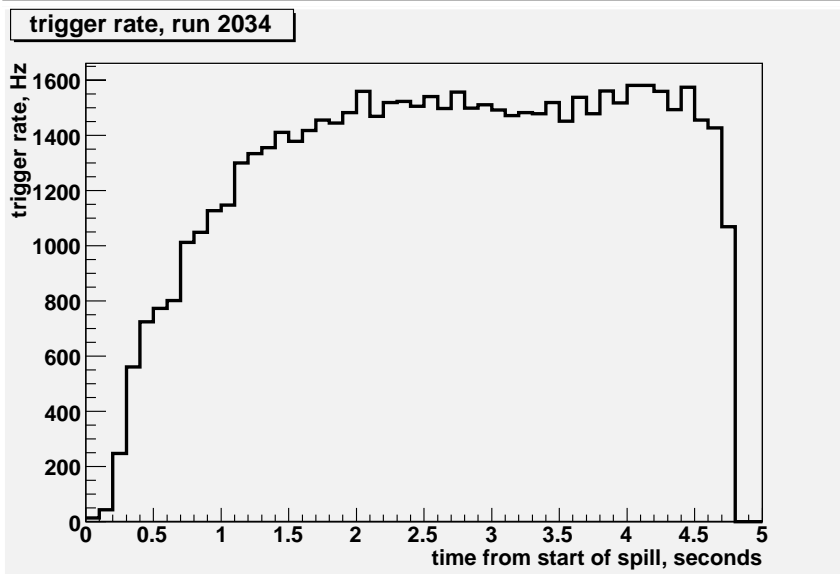
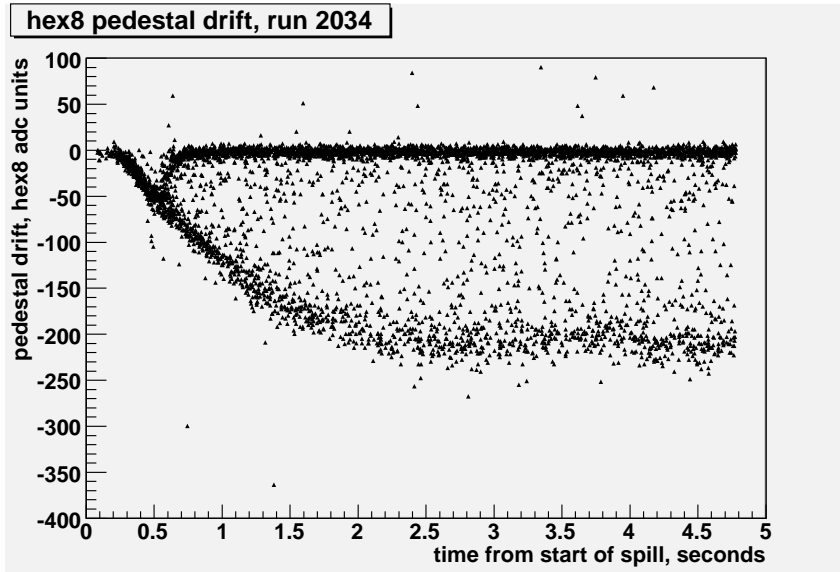
HEX8 pedestal drift for one crystal



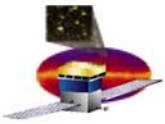
- Pedestal drift follows the event rate evolution with time from start of spill
- after expected initial exponential behavior with dt pedestal drift arrive to negative constant (at 0.2 ms) and then returns back to zero at ~1.2 ms



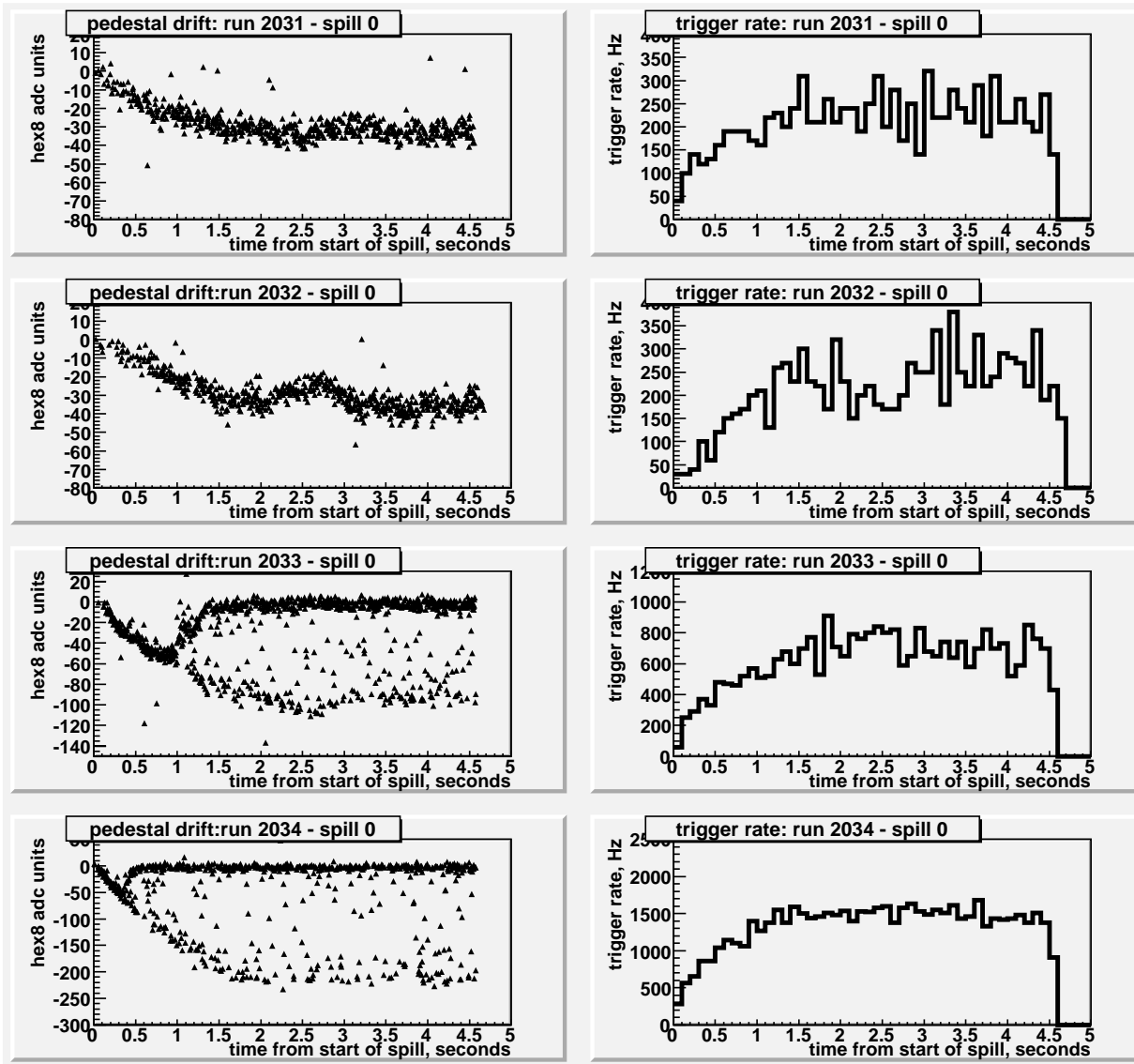
HEX8 pedestal drift – run 2034 with higher rate

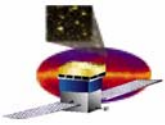


- Pedestal drift follows the event rate evolution with time from start of spill
- after expected initial exponential behavior with dt pedestal drift arrive to negative constant (at 0.1 ms) and then returns back to zero at ~0.6 ms



First spill of 4 runs with different rate





Preliminary conclusion

- One more feature not easy to explain ...
- Looks like there is some unexpected non-linear behavior in the shaper stage
- I'll continue to work on the subject