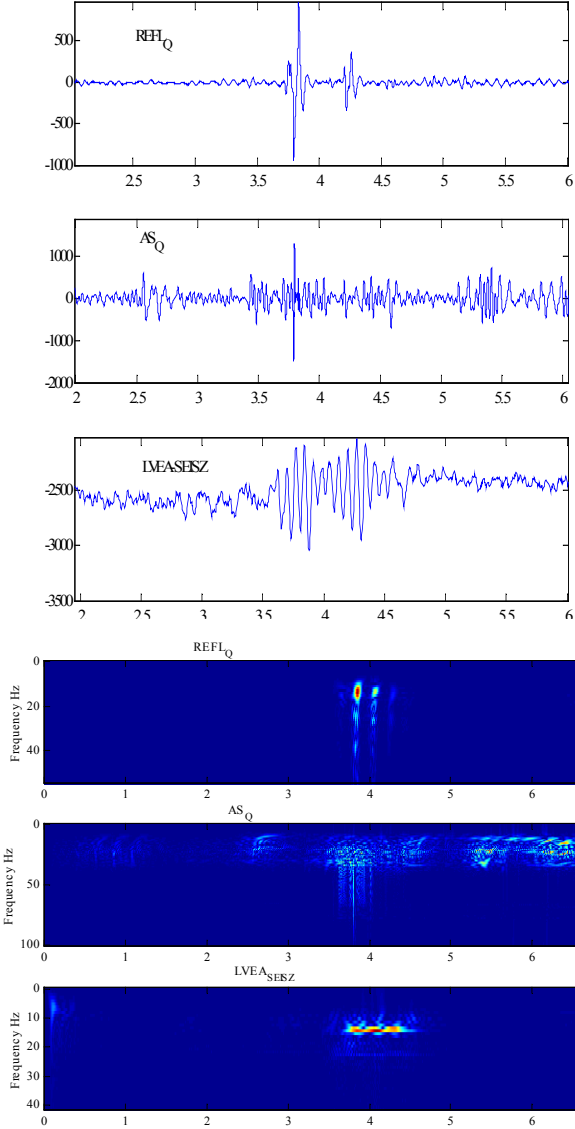


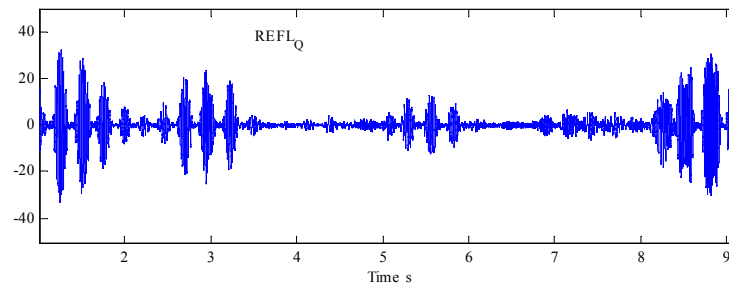
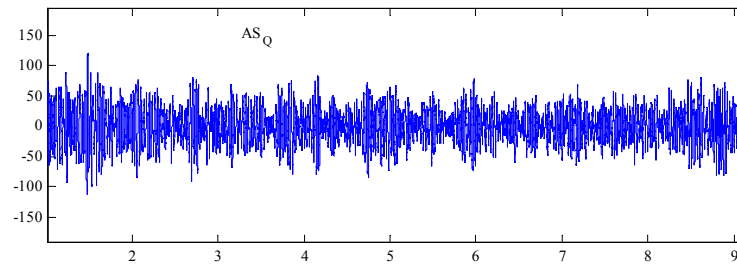
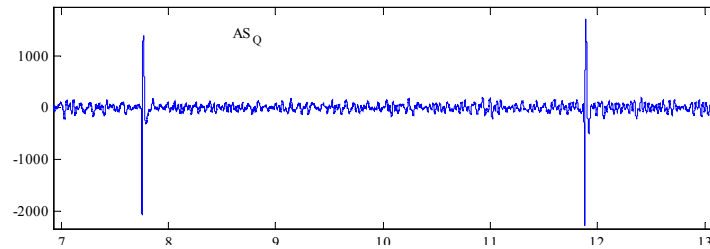
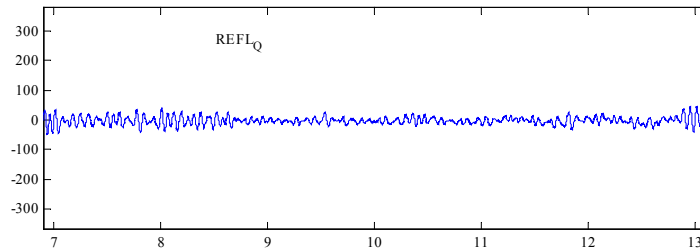
Vetoed at LLO due to Cattle-Guard events.

Vijay Chickarmane, Gabriela Gonzalez
LSU

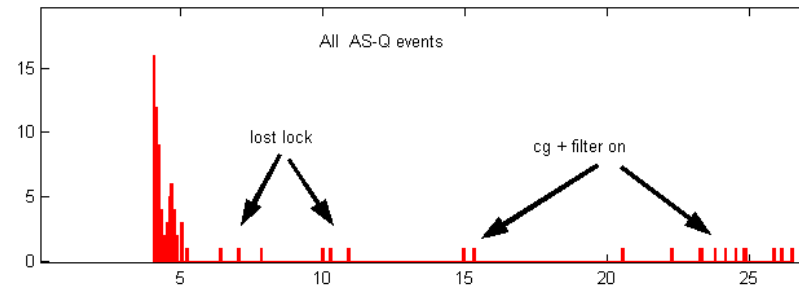
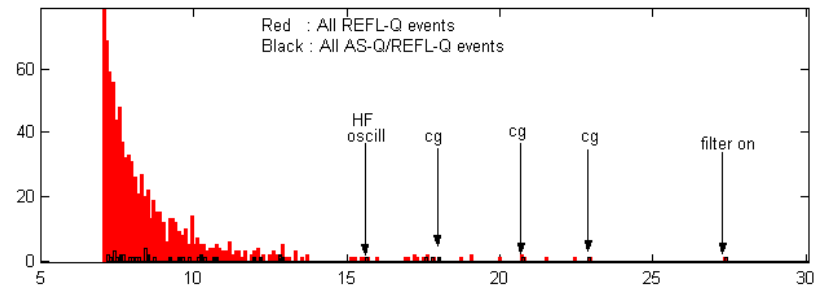
- Analyzed **coincident** events using “Glitch” (PSLmon) for channels L1:LSC-AS_Q and L1:LSC-REFL_Q. List of times to veto large events in AS_Q.
- 6.5 hrs, clean-locked segments 20-80 min, “PlayL1noH1H2”
- “Glitch” -High pass filter-triggers, REFL_Q > 7sigma,
AS_Q > 4 sigma
- REFL_Q=897, AS_Q=87, AS_Q/REFL_Q=46
- Significance=size/(standard deviation noise)
- REFL_Q & AS_Q both large-Cattle-Guard events
Dewhitening filters on
REFL_Q& AS_Q - High Freq oscillations

Cattle-Guard Signal

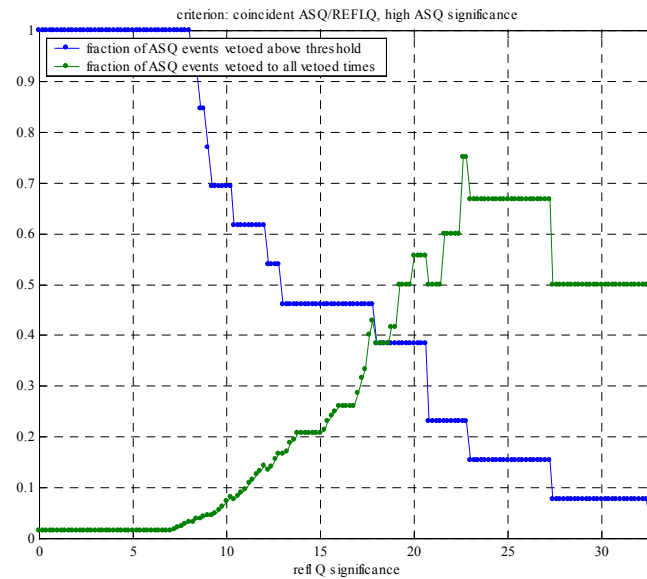




Other Significant
events: Filters-on,
High-Freq Oscill.



Veto Large events



Summary and Conclusions

- Used “Glitch” to study coincident AS-Q/REFL-Q events, “Significance” was useful to categorize events.
- Events classified into low/high significance, threshold chosen to minimise lost time+pick up large events.
- Better picture should emerge after full Playground data, first week April
- E7 data - second week May.
- Future Runs: Find AS_Q correlations with other channels which eliminate Oscillation events. Update threshold, interferometer noise varies. Look at waiting time distribution of glitches-exponential for independent glitches-eliminate sections where we see correlations.