

# VEGAS Analysis Update

- Originally we used 2.5.8, but still getting segfault when doing itm analysis (we're not sure how to resolve this issue)
- Switched to 2.5.7, and we will do 2 sets of analysis on each GRB, both with soft cuts-- itm & standard
- Going to process stages 1-4 first, then will have to work out time cuts, extra options before running stage 5
- Recorded all run information, and now also all stage processing information, on spreadsheet
  - Which stages on which analysis set failed, completed successfully, timed out (too big for condor)
  - Error information to try and fix

# VEGAS Analysis-- Current Status

- As of now, I have attempted to run stages 1-4 on all GRBs at least once
- Soft, standard analyses seem to have worked properly for all GRBs
- Some itm analyses have failed in s4 (5 total runs, but spread over 4 different GRBs)
  - segfault, “No ShowerEventTree called ShowerEventsTree could be loaded - returning nullptr pointer”
- One weird “permission denied” error killed a run at stage 1 (couldn’t access the necessary files because it got denied)
- So 2 GRBs (160509A, 170428A) are completely ready for s5 with both standard and itm
- Rest are ready for standard, itm need to fix these errors
- I am currently running s4 again for the GRBs that failed there just to make sure that the error persists

# VEGAS Analysis-- Next Steps

- Fixing the errors may or may not be simple (will talk with Deivid about this)
- Can start looking at time cuts for s5 (and run s5 for standard analysis) while sorting out the errors for itm analysis, will have to re-run s4 for those GRBs
- Then stage 6 after s5... once we get there