VEGAS Analysis Updates

- Currently, 4 out of the 6 GRBs are fully complete with stage 6 analysis (both itm and standard)

- The other 2 are encountering errors that still need to be resolved (160509A, 170519A)

- Working with python code from Deivid to get significance and excess plots from stage6 data

- So far, results do not suggest detection (I will put together slides with all of the results, but need to finish other GRBs and get the maps/plots first)-- highest significance is 1 sigma

VEGAS Analysis Next Steps

- Try and get to the bottom of the errors blocking the last 2 GRBs from running stages 5 and 6

- Get all the significance and excess plots & maps for the GRBs done at s6 (for both itm and standard), save those

- Then can at least have a full set of results to show for the GRBs that didn't have errors

- Interpretation of results-- anything interesting there? (at the moment, doesn't seem promising)

VEGAS Testing Overview

- Goal: determine which configurations of VEGAS are fully functional. For the configurations that fail, record information about where they fail and errors to help the VEGAS team look at potentially fixing the issues.
    - Configuration options:
        - v2.5.8 or v2.5.7
        - ITM analysis on or off
        - TDRBM on or off (time dependence)
    - $2^3 = 8$ possible configurations to test out
- Using Crab dataset for the runlist
- Recording results in a spreadsheet

VEGAS Testing: Results

- All configurations are tested. As far as I can tell, this is how the results look:

- 2.5.7: All configurations go through to the end

    - TDRBM off (both itm on and off): works perfectly (yay!)

    - TDRBM on: there are lots of notes in the logfile about (potential?) issues, but as far as I can tell, the analysis successfully runs. So it might be OK, but maybe still an issue...

- 2.5.8:

    - ITM on → s4 segfault issue with some runs

    - ITM off, TDRBM on → Runlist doesn't exist error? EA Consistency Check error? This one is weird.

    - ITM off, TDTBM off → successful