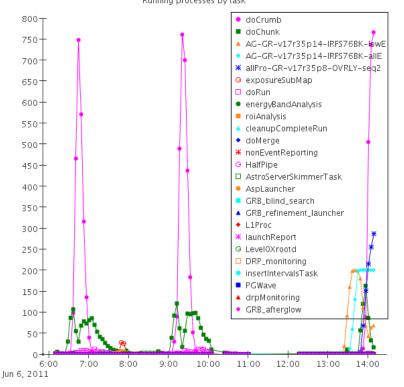
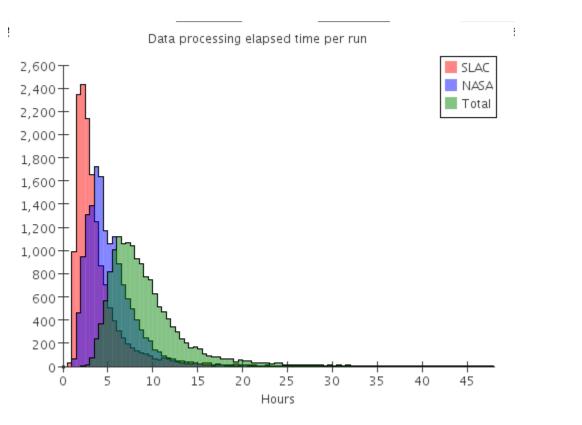
## Fermi Special Time Critical Needs Or Why We Suspend Your Batch Jobs Every Three Hours

- Fermi data downlinked and delivered to SLAC every 3h:
  - Fermi put 800 cores in the general batch queues
  - We use them for <1h every 3h:</p>
    - The rest of the time you can use them
  - But when we need them we suspend any job already running on our cores.

– Why?



- From raw data on the satellite to the final analysis data for the end user:
  - ~8h
  - Includes downlink, data transfer to SLAC, data processing here (reconstruction, photon identification etc)

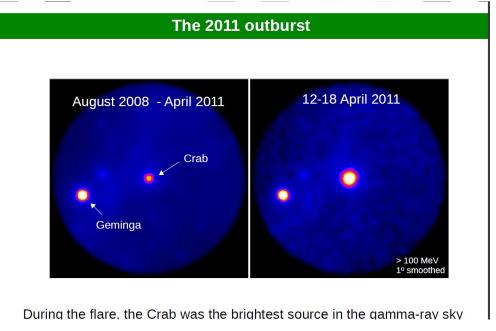


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## **Dynamic Sky**

- The sky is dynamic on very short time scales:
  - From seconds to hours to days
- One instrument (wave-length) alone is not enough!
  - Need multi-wavelength campaigns to study objects
  - Need to alert other observatories/telescopes asap
- Example:





## Summary

- Time is critical for the Fermi data processing!
  - So we suspend your jobs!
  - But remember:
    - You get access to 800 Fermi cores!
      - » Most of the time ....
    - And you can chose not to run on these cores!
      - » Bsub -R "-preempt"