ASIS Closeout

Bruce Allen, UWM

ASIS talks at this meeting

- **Nick Fotopoulos (MIT)**
  Searching for Astrophysical Stochastic Backgrounds
- **Richard O'Shaughnessy (Northwestern)**
  Compact object merger rates: predictions and constraints (including short GRBs)
- **Patrick Sutton (LIGO)**
  Coherent network analysis technique for discriminating gravitational-wave bursts from instrumental noise
- **Reinhard Prix (AEI)**
  The metric of the (multi-IFO) F-statistic
- **Ben Owen (PSU)**
  Why (else) is PSR J0537-6910 interesting to us?
- **Bernard Whiting (Florida)**
  The dawn of a golden age: report on recent results in numerical relativity
- **Malik Rakhmanov (PSU)**
  Network analysis pipeline at PSU

Patrick Sutton (LIGO)

Coherent network analysis technique for discriminating gravitational-wave bursts from instrumental noise

QuickTime™ and a
TIFF (LZW) decompressor
are needed to see this picture.

Bernard Whiting (Florida)

The dawn of a golden age - report on recent results in numerical relativity

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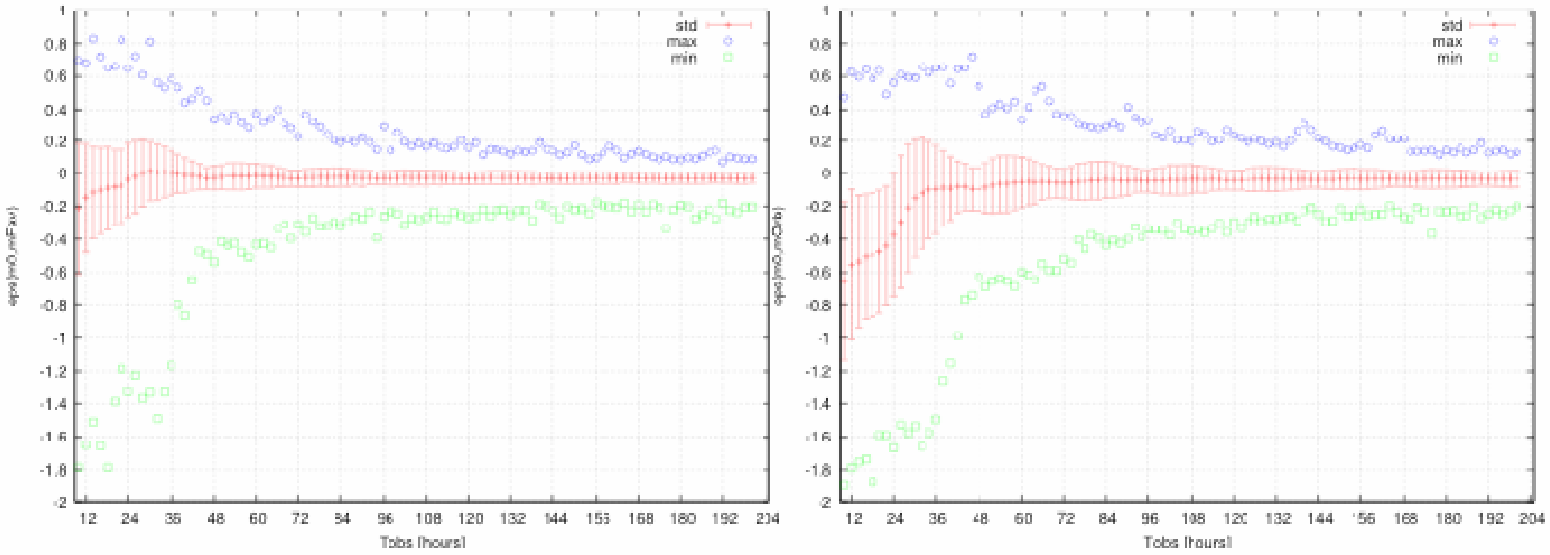
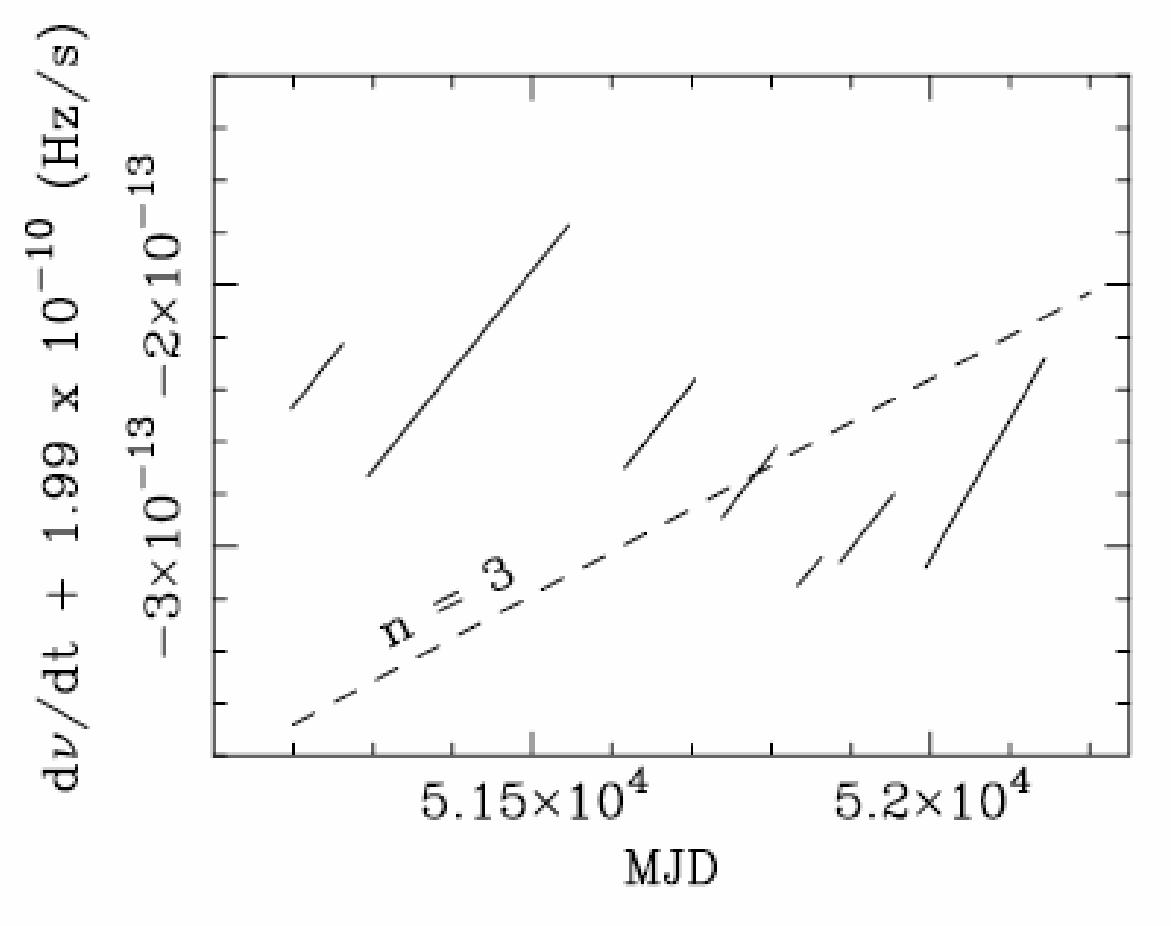
Quality of average and orbital metric

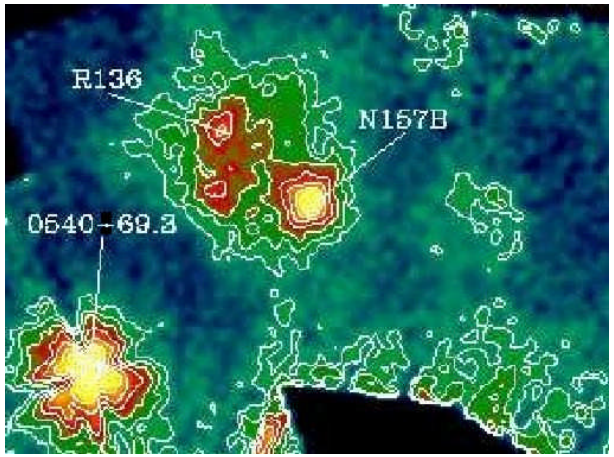
$\overline{g}^{\mathcal{F}}_{ij}$ g^{orb}_{ij}

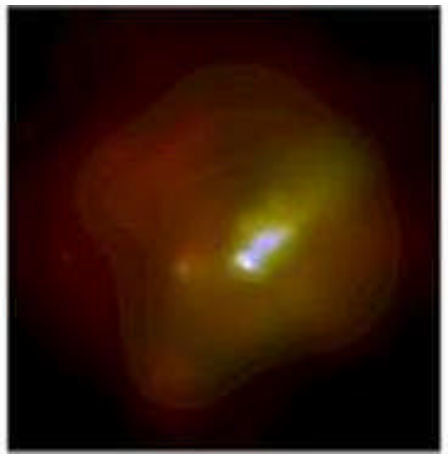


Ben Owen (PSU)

Why (else) is PSR J0537-6910 interesting to us?







General Observations

- Inspiral and Stochastic Background searches are approaching maturity
  - » Can quickly “retune/rerun” standard analyses with new data
  - » Many aspects automated, or running online
  - » Well tested, understood and characterized pipelines
  - » Coherent filtering analysis tools in progress
- Burst Search
  - » At least one ‘new idea’ (the ‘null channel veto’) has been well understood and implemented by several groups in well under a year
- CW Search
  - » It’s time to forge closer ties to X-ray and radio astronomers
  - » Multiple blind search techniques have been developed and implemented. A period of better understanding (and consolidation) is starting; first true hierarchical search codes under development