gamma-ray transient search with VERITAS

Christian Skole, VERITAS-Group of G. Maier, DESY

Involved in upgrading analysis software
- testing & bugfixing
- "next-day analysis" → output in FITS format

Implementing new methods to find γ-ray transients
- duration too short to get enough counts → use time as additional information
- run over archival VERITAS data to search for missed transients
  - if successful → apply method also during future CTA-analysis

GRB analysis
- 1-2 GRBs/month → 54 GRBs observed w/ VERITAS until end of 2011

MC Simulations for VERITAS & CTA
- batch farm at DESY
- lots of CORSIKA data already available
- to do: sensitivity of CTA for short time scales

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