

CTA Data Challenge

Jürgen Knödseder (IRAP)

CTA Data Challenge

- Objectives
 - increase simulation activity in CTA Science Working Groups
 - test analysis tool capabilities
- Scope
 - simulate events for 3 Key Science Projects (GPS, GC, EGAL) plus some AGN monitoring
 - data release by mid-April
 - let CTA Consortium play with the data for some time (~3 months)
- Expected outcome
 - science benchmarks for KSPs
 - feedback on analysis tools

Can a User get Science out of data

- Do all tools exist?
 - Eventually add missing tools
- Are tools useful and usable
 - User interface?
 - Speed?
 - Eventually modify tools

For those interested: some test data for the GPS KSP exist

Timing

- **ctphase**
 - Tool that appends PHASE information to event file
 - Extract PHASE information either from model XML file or User Parameters
 - Required for pulsars and gamma-ray binary analysis
- **csphasecrv**
 - Fit model in each phase bin
 - Similar to cslightcrv
- **ctprob**
 - Compute probability that an event originates from a specific model
 - Appends PROB column to event file