# Gamma-Ray Burst / Solar Flare Team:  Summary
## GLAST LAT Collaboration Meeting
## October 23-24, 2002


**Topic**                                                                    **Assignee**

**Miscellaneous**
   1. Consider Joint LAT & GBM GRB catalog         C. Meegan, SWG/GRB team

**A. GRB Simulations**
   1. Simulate intense solar flare:         N. Omodei
      what measure(s) might the LAT take to reduce trigger rate,
         while preserving science

   2. How to employ ACD during intense flare         G. Share, JJ Russell

   3. Dead-time estimation
    Provide & analyze detected GRB photon arrival times      J. Bonnell, JJ Russell
         for set of bright GRBs

   4. Realistic On-board GRB Simulations (for max. effective area):
    Background decimation:
         Which on-board filters should/can be relaxed during GRBs ?

         Energies $\lesssim$ 30 MeV

         Energies $\gtrsim$   1 GeV (esp., "CAL-only supplement" ~ 40%)

## B. On-board LAT GRB Trigger  &  C. LAT GRB Alert

1. Deliver Bayesian Block algorithm to GBM team,    J. Norris, M. Briggs
 interactive support for on-board implementation

2. "C" (?) algorithms to utilize
 GBM temporal information and         J. Norris
 GBM spatial information          N. Omodei
   for ID of LAT photons

3. "C" (?) algorithms to generate
 On-board LAT GRB localization        Who?
 At-MOC LAT GRB localization        Who?

4. Define all operational modes for GRB triggers, alerts.  GBM reps, LAT reps, R. Cox


## D. Communications with Flight & Ground SW Groups  M. Briggs, JJ Russell, R. Cox, J. Norris

1. On-board Processing Goals:
 Minimalist communications in prompt & delayed alert
   $(GBM \rightarrow S/C \rightarrow LAT \rightarrow Ground)$
 Minimalist algorithms
 Maximum GRB science


## E. GRB Physical Model

1. Maintain flexibility of model, allowing variants     N. Omodei

## F. GRBs & Quantum Gravity

1. GRBs still an interesting tool for probing QG