

## Rapid Fermi-GBM GRB localization with BALROG

Through the use of the BALROG code's improved statistical treatment (<https://arxiv.org/abs/1610.07385> , <https://arxiv.org/abs/1902.01082>), it is now possible to achieve superior localization performance for the Gamma-ray Burst Monitor (GBM) on-board the Fermi space telescope. The code is currently being used to rapidly localize gamma-ray bursts (GRBs), which positions are then shared with the rest of the community through our website. The locations can then be used for follow-up observations by other instruments. The code is open source, available at <https://github.com/mpe-grb>.

**Primary authors:** BERLATO, Francesco; Mr KUNZWEILER, Felix (MPE); Mr BLITZINGER, Bjoern (MPE); Dr BURGERS, J. Michael (MPE); Dr GREINER, Jochen (MPE)

**Presenters:** BERLATO, Francesco; Mr KUNZWEILER, Felix (MPE)