

Cover Page

Title: EARLY AND DEEP FOLLOW-UP OF SWIFT GRBS WITH P60 AND THE SED MACHINE

Principal Investigator: DR. JAMES D NEILL

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Proposal Type: 3. Other correlative GRB and non-GRB investigations (funding only)

Science Subject: GAMMA-RAY BURSTS

Total Time Requested (ksec): 0.00

Number of Targets: 0

Abstract:

We propose to continue our successful program of rapid, deep, multi-filter follow-up of Swift gamma-ray bursts (GRBs) with the Palomar 60-inch telescope (P60). Our science goals are to: (A) provide an automated, early-time spectroscopic capability to enable immediate redshift measurement and sensitive constraints on the color evolution of GRBs with the SED Machine; (B) rapidly identify high-redshift and highly dust-obscured GRBs; (C) conduct multi-wavelength observations to identify reverse shocks and constrain the total energetics of GRBs; (D) build up large, high-quality, unbiased samples of optical light curves and host galaxies to enable demographic studies.

General Form

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Principal Investigator: DR. JAMES D NEILL

Co-Investigator(s):

Name	Institute	Country
NICK KONIDARIS	CALIFORNIA INSTITUTE OF TECHNOLOGY	USA
BRAD CENKO	NASA/GSFC	USA
DANIEL PERLEY	UNIVERSITY OF COPENHAGEN	DENMARK
SHRI KULKARNI	CALIFORNIA INSTITUTE OF TECHNOLOGY	USA

Contact first Co-Investigator listed above? Yes
Contact Telephone: 6263953293
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Is this investigation part of a graduate student thesis? No
Number of Undergraduates Involved: 0
Number of Graduate Students Involved: 0

Is this a joint Swift/NRAO proposal? No
Total NRAO Time Requested (hours): 0.0

NASA FTE Commitment: 0.0000
Anticipated Total Budget: 40.0