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### GRB 180809B

*VLT optical upper limits*

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J. Japelj (U. Amsterdam), D. B. Malesani (DAWN/NBI and DARK/NBI), J. Selsing (DAWN/NBI), N. R. Tanvir (U. Leicester), D. A. Kann (HETH/IAA-CSIC), V. D'Elia (ASI-SSDC), G. Pugliese (U. Amsterdam), K. E. Heintz (Univ. Iceland and DAWN/NBI), J. P. U. Fynbo (DAWN/NBI), A. J. Levan (Univ. Warwick), P. Schady (University of Bath), report on behalf of the Stargate collaboration:

We observed the field of GRB 180809B with the ESO VLT UT2 (Kueyen), using the X-shooter acquisition camera. In a single 120-s r-band exposure, with a mean epoch Aug 10.055 UT (4.84 hr after the GRB), we detect no object at the position of the optical afterglow (e.g., Moss et al., GCN 23105; Lipunov et al., GCN 23109; Schweyer et al. GCN 23111; Guidorzi et al., GCN 23112, Tiurina et al., GCN 23113), down to a limiting magnitude  $r > 24.7$  AB (calibrated against nearby Pan-STARRS sources).

Compared to the r-band measurement by Guidorzi et al. (GCN 23112), and assuming an unbroken power-law decay  $F(t) \propto t^{-\alpha}$ , the corresponding decay index is  $\alpha > 2.2$  between 0.55 and 4.84 hr after the GRB.

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