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GRB 190531B

VLT optical upper limit

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J. Japelj (U. Amsterdam), A. Rossi (INAF-OAS), D. B. Malesani (DTU Space), K. E. Heintz (Univ. Iceland), G. Pugliese, L. Kaper (U. Amsterdam) report on behalf of the Stargate collaboration:

We observed the field of GRB 190531B (Fermi GBM team, GCN 24695; Kunzweiler et al., GCN 24696; Axelsson et al., GCN 24701) with the ESO VLT UT2 (Kueyen), using the X-shooter acquisition camera. A 3x30 s exposure with the SDSS r filter was taken at approximate time 2019 June 1.39 UT (0.55 days after GRB).

We do not detect any new object within the error region of the detected X-ray afterglow (D'Avanzo et al., GCN 24706), down to a 3-sigma limiting magnitude $r > 23$ AB (calibrated against nearby star at position RA=01:37:12.696, Dec=-41:57:36.702). The closest source to the XRT error circle is at RA=01:37:11.37, Dec=-41:57:30.73, which is 3.1 arcsec away from the XRT location, and is thus unlikely to be related to the GRB.

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