GRB 190627A: VLT/FORS2 spectroscopic redshift.


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We observed the optical counterpart (Siegel et al., GCN 24889; Pozanenko et al., GCN 24892) of GRB 190627A (Sonbas et al., GCN 24888) with the ESO VLT UT1 equipped with the FORS2 spectrograph. We obtained a 30 min spectrum with the 600RI (512 - 845 nm) and a 30 min spectrum with the 600z (737-1070 nm) grism. Observations started at 01:12:41 UT on June 30 (i.e., 2.57 days after the GRB detection).

In the spectrum, the continuum is clearly detected. We detect three MgII absorption systems at redshifts $z = 1.942, 1.774$ and $1.681$. The redshift $z = 1.942$ and $1.681$ absorption systems also exhibit FeII lines. We conclude that $z = 1.942$ is the likely redshift of GRB 190627A.

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