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GRB 140622A: VLT/X-shooter redshift

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FROM: Olga Hartoog at U of Amsterdam <O.E.Hartoog@uva.nl>

O.E. Hartoog (API/UvA), D. Malesani (DARK/NBI), R. Sanchez-Ramirez (IAA-CSIC), A. de Ugarte Postigo (IAA-CSIC, DARK/NBI), A.J. Levan (U. of Warwick), J.P.U. Fynbo (DARK/NBI), P.M. Vreeswijk (Weizmann), L. Kaper (API/UvA) report on behalf of the X-shooter GRB collaboration:

We observed the field of short GRB140622A (D'Elia et al., GCN 16433) with the VLT X-shooter spectrograph covering a spectral range 3200Å to 18000Å, with a total exposure time of 2x600s. Observations started at UT 10:10:32, ~34 minutes after the trigger. The slit was positioned on the object at RA(J2000) = 21:08:41.73, Dec(J2000) = -14:25:06.5 identified by Tanga et al. (GCN 16435), at the border of the 2.6" XRT error circle.

We detect emission lines from this source at a redshift of $z \sim 0.959$: H-alpha, H-beta, [OII], [OIII]. It is likely that this is the host galaxy of GRB140622A. A very faint trace is detected redwards of ~7000Å. This wavelength coincides with a Balmer jump at the host redshift.

We thank the staff at Paranal for their support in obtaining these observations.