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GRB 130427A: VLT/X-shooter redshift confirmation

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GRB 130427A: VLT/X-shooter redshift confirmation

H. Flores (Obs. de Paris), S. Covino (INAF), D. Xu, T. Kruehler, J. Fynbo, B. Milvang-Jensen(DARK/NBI), A. de Ugarte Postigo (IAA-CSIC, DARK/NBI), L. Kaper (UVA) and K. Wiersema (U. Leicester) report on behalf of the X-shooter GRB collaboration:

VLT/X-shooter observed the afterglow of GRB 130427A (Maselli et al., GCN 14448; Elenin et al., GCN 14450), starting on 2013-04-28 at UT 00:23. The observation consisted of 2x600s exposures.

In the spectra we detect the continuum in the complete range from 3000 to 24800 A. We find several absorption features including FeII, MnII, MgII, MgI, TiII, CaII, NaI, and emission lines such as H-alpha, H-beta, [OIII], and [OII], all at a common redshift of $z=0.3399 \pm 0.0002$, consistent with the measurement in Levan et al. (GCN 14455) and Xu et al. (GCN 14478).

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