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Title	VizieR Online Data Catalog: UV/Optical/NIR spectroscopy GRB hosts (Kruehler+, 2015)
Authors	Kruehler, T., Malesani, D., Fynbo, J. P. U., Hartoog, O. E., Hjorth, J., Jakobsson, P., Perley, D. A., ROSSI, Andrea, Schady, P., Schulze, S., Tanvir, N. R., Vergani, S. D., Wiersema, K., Afonso, P. M. J., Bolmer, J., Cano, Z., COVINO, Stefano, D'Elia, V., de Ugarte Postigo, A., Filgas, R., Friis, M., Graham, J. F., Greiner, J., Goldoni, P., Gomboc, A., Hammer, F., Japelj, J., Kann, D. A., Kaper, L., Klose, S., Levan, A. J., Leloudas, G., Milvang-Jensen, B., Nicuesa Guelbenzu, A., PALAZZI, ELIANA, PIAN, Elena, PIRANOMONTE, Silvia, Sanchez-Ramirez, R., Savaglio, S., Selsing, J., TAGLIAFERRI, Gianpiero, Vreeswijk, P. M., Watson, D. J., Xu, D.
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J/A+A/581/A125 UV/Optical/NIR spectroscopy GRB hosts (Kruehler+, 2015)

Gamma-ray burst hosts through cosmic time. VLT/X-Shooter emission-line spectroscopy of 96 gamma-ray-burst-selected galaxies at $0.1 < z < 3.6$.
Kruehler T., Malesani D., Fynbo J.P.U., Hartoog O.E., Hjorth J., Jakobsson P., Perley D.A., Rossi A., Schady P., Schulze S., Tanvir N.R., Vergani S.D., Wiersema K., Afonso P.M.J., Bolmer J., Cano Z., Covino S., D'Elia V., de Ugarte Postigo A., Filgas R., Friis M., Graham J.F., Greiner J., Goldoni P., Gomboc A., Hammer F., Japelj J., Kann D.A., Kaper L., Klose S., Levan A.J., Leloudas G., Milvang-Jensen B., Nicuesa Guelbenzu A., Palazzi E., Pian E., Piranomonte S., Sanchez-Ramirez R., Savaglio S., Selsing J., Tagliaferri G., Vreeswijk P.M., Watson D.J., Xu D.
<Astron. Astrophys. 581, A125 (2015)>
=[2015A&A...581A.125K](#) (SIMBAD/NED BibCode)

ADC_Keywords: Gamma rays - Galaxies, spectra

Keywords: gamma-ray burst: general - galaxies: high-redshift - galaxies: star formation - galaxies: evolution

Abstract:

We present data and initial results from VLT/X-shooter emission-line spectroscopy of 96 galaxies selected by long gamma-ray bursts (GRBs) at $0.1 < z < 3.6$, the largest sample of GRB host spectra available to date. Most of our GRBs were detected by Swift and 76% are at $0.5 < z < 2.5$ with a median $z_{\text{med}} \sim 1.6$.

Description:

Flux-calibrated VLT/X-shooter medium resolution spectra of GRB host galaxies, selected to show emission lines. Wavelengths are in the observed frame, in vacuum, and in a heliocentric reference frame. Fluxes are in units of $\text{erg/s/cm}^2/\text{\AA}$ and are all corrected for Galactic foreground reddening according to Schlafly & Finkbeiner (2011ApJ...737..103S). Fluxes are not corrected for host extinction or slit losses. Some spectra are taken shortly after the GRB. In these cases the continuum is dominated by the bright afterglow and not by the stellar light of the host galaxy.

File Summary:

FileName	Lrecl	Records	Explanations
ReadMe	80	.	This file
list.dat	28	96	List of GRB host galaxies with spectra
sp/*	43	187	Individual spectra

See also:

[J/A+A/508/593](#) : GRB 080710 bright optical/NIR afterglow (Kruehler+, 2009)
[J/ApJ/720/862](#) : Afterglow light curve of GRB 090926A (Rau+, 2010)
[J/MNRAS/406/2473](#) : Photometry of GRB 071025 (Perley+, 2010)
[J/A+A/531/A39](#) : g'r'i'z'JHKs light curves of GRB 081029 (Nardini+, 2011)
[J/A+A/535/A57](#) : g'r'i'z'JH light curves of GRB 091127 (Filgas+, 2011)
[J/MNRAS/426/2](#) : GRB 091018 Optical/NIR photometry (Wiersema+, 2012)
[J/A+A/557/A18](#) : GRB 120815A afterglow spectra (Kruehler+, 2013)
[J/A+A/560/A70](#) : GRB 100621A unusual afterglow (Greiner+, 2013)
[J/ApJ/778/128](#) : GRB-host galaxies photometry (Perley+, 2013)
[J/A+A/562/A29](#) : GRB 100814A GROND and UVOT light curves (Nardini+, 2014)
[J/A+A/568/A19](#) : Photometry of 3 γ -ray burst supernovae (Cano+, 2014)
[J/A+A/568/A75](#) : GRB 130925A GROND light curves (Greiner+, 2014)
[J/A+A/572/A12](#) : GRB 140506A spectra (Fynbo+, 2014)

Byte-by-byte Description of file: [list.dat](#)

Bytes	Format	Units	Label	Explanations
1- 10	A10	---	Name	GRB host (GRBYMMDDA)
13- 18	F6.4	---	z	Redshift
21- 23	A3	---	sp1	Spectral coverage of first spectrum (1)
26- 28	A3	---	sp2	Spectral coverage of second spectrum, if any (1)

Note (1): Spectral coverage as nir, vis and uvb.

Spectra are available in sp subdirectory, as
Name_{sp1}vac_{helio}ld_ebv.dat and Name_{sp2}vac_{helio}ld_ebv.dat.

Byte-by-byte Description of file (# headlines): [sp/*](#)

Bytes	Format	Units	Label	Explanations
1- 11	F11.5	0.1nm	lambda	Heliocentric vacuum wavelength
17- 27	E11.5	10mW/m2/nm	Flux	Flux density
33- 43	E11.5	10mW/m2/nm	e_Flux	Flux density error

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Thomas Kruehler, t.kruehler(at)gmail.com

(End) Thomas Kruehler [PA0/SVC], Patricia Vannier [CDS] 06-Jul-2015

The document above follows the rules of the [Standard Description for Astronomical Catalogues](#); from this documentation it is possible to generate **f77** program to load files [into arrays](#) or [line by line](#)

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