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Classification of 17 DES supernova with OzDES

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on 10 Nov 2016; 21:16 UT

Credential Certification: Brad Tucker (brad@mso.anu.edu.au)

Subjects: Optical, Supernovae

We report new spectroscopic classifications by OzDES of supernovae discovered by the Dark Energy Survey (ATEL #4668). The spectra (370-885nm) were obtained with the AAOmega Spectrograph (Saunders et al. 2004, SPIE, 5492, 389) and the 2dF fibre positioner at the Anglo-Australian Telescope (AAT). Object classification was performed using SNID (Blondin & Tonry,

2007, ApJ, 666, 1024) and superfit (Howell and Wang, 2002, BAAS, 34, 1256), the details of which are reported in the table below.

Name	RA (J2000)	Dec (J2000)	Discovery	Discovery	Spectrum	Redshift
Type	Phase	Notes	Date (UT)	Mag (r)	Date (UT)	
DES16E1ciy	00:35:49.74	-43:23:36.8	2016 Oct 09	22.3	2016 Nov 01	0.174
SNIa	near-max	a				
DES16S1cps	02:52:31.23	-00:51:53.3	2016 Oct 19	23.2	2016 Nov 01	0.274
SNIa	-1 week	a				
DES16E2crb	00:39:56.01	-44:17:08.8	2016 Oct 24	23.0	2016 Nov 02	0.229
SNIa	near-max	a				
DES16E2clk	00:36:48.85	-44:08:23.1	2016 Oct 20	23.0	2016 Nov 02	0.367
SNIa	near-max	a				
DES16E2cqq	00:39:50.07	-43:33:53.2	2016 Oct 20	24.2	2016 Nov 02	0.426
SNIa	-1 week	a				
DES16X2ceg	02:23:08.02	-06:47:30.2	2016 Sep 30	24.1	2016 Nov 03	0.335
SNIa	near-max	a				
DES16X2bkr	02:19:37.67	-06:04:18.2	2016 Sep 21	22.3	2016 Nov 03	0.159
SNII	post-max	a				
DES16X2crr	02:19:39.09	-06:03:49.9	2016 Oct 25	22.9	2016 Nov 03	0.312
SNIa	near-max	a				
DES16X2cpn	02:20:25.88	-06:23:07.7	2016 Oct 19	21.9	2016 Nov 03	0.28
SNIa	+1 week					
DES16X2bvf	02:18:36.28	-06:30:37.0	2016 Sep 25	23.5	2016 Nov 03	0.135
SNIIb	post-max	a,b				
DES16C1cbg	03:39:20.71	-27:09:53.6	2016 Sep 28	23.5	2016 Nov 03	0.111
SNII	post-max	a				
DES16C2cbv	03:34:35.40	-28:54:31.6	2016 Sep 28	22.0	2016 Nov 03	0.109
SNII	near-max	a				
DES16C1bnt	03:38:47.54	-27:17:37.2	2016 Sep 21	22.9	2016 Nov 03	0.351
SNIa	+1 month	a				
DES16C3at	03:30:54.19	-27:43:11.7	2016 Aug 14	22.1	2016 Oct 31	0.217
SNII	+60 days	a				
DES16X3cpl	02:27:33.44	-04:42:46.2	2016 Oct 19	23.0	2016 Oct 31	0.205
SNII?	near-max	a				
DES16E2cjq	00:34:38.03	-44:46:17.4	2016 Oct 09	23.7	2016 Nov 02	0.48
SNIa	near-max					
DES16X2crt	02:20:14.81	-06:00:56.1	2016 Oct 25	22.6	2016 Nov 03	0.57
SNIa?	near-max					

a). Redshift from galaxy features

b). The best-fit spectral matches are to 2005bf.

[**Telegram Index**]

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