

IAUC 6861: SNe; 1SAX J0544.1-710

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SUPERNOVAE

P. Garnavich, Center for Astrophysics, reports that the High-Z Supernova Search Team ([IAUC 6160](#), [6646](#)) has discovered 11 supernovae on CCD images taken with the Cerro Tololo 4-m telescope by N. Suntzeff, M. Phillips, R. C. Smith, A. Clocchiatti, A. Diercks, P. Challis, and B. Schmidt. The supernovae were identified by subtracting images taken on Jan. 23-24 and Feb. 26-27 UT from those obtained Mar. 25-26, and confirmed with spectra and images taken on Mar. 5, 26, and 27 with the Keck-2 telescope by A. V. Filippenko, A. G. Riess, D. C. Leonard, and E. C. Moran.

SN	1998 UT	R.A. (2000)	Decl.	I	z	type
1998ac	Feb. 27	9 31 20.00	- 5 16 24.3	23.7	0.46	Ia
1998ad	Mar. 25	9 29 55.71	- 5 21 59.3	23.4	0.44	II?
1998ae	Mar. 25	9 30 47.53	- 4 38 51.0	23.9	1.1	?
1998af	Mar. 25	9 30 36.98	- 5 04 51.1	23.7	0.23	II
1998ag	Mar. 25	13 43 36.42	+ 0 08 02.2	23.5	0.67	Ia
1998ah	Mar. 26	9 28 15.74	- 5 21 57.9	22.6	0.43	Ia
1998ai	Mar. 26	13 42 27.59	- 0 06 47.2	22.7	0.49	Ia
1998aj	Mar. 26	9 27 55.76	- 4 59 56.9	24.1	0.83	Ia
1998ak	Mar. 26	13 44 16.22	- 0 10 49.3	23.7	0.74	Ia?
1998al	Mar. 26	13 43 05.37	- 0 25 43.0	23.4	0.71	Ia
1998am	Mar. 26	13 41 21.38	- 0 32 33.8	23.8	0.24	II

The supernovae are within 2" of their host galaxies. Finder charts may be requested by sending electronic mail to pgarnavich@cfa.harvard.edu.

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G. Cusumano, T. Mineo, and L. Nicastro, Istituto di Fisica Cosmica ed Applicazioni all'Informatica, CNR, Palermo; and G. L.

Israel, Osservatorio Astronomico di Roma, report the discovery of a new x-ray pulsar, designated as 1SAX J0544.1-710, during a BeppoSAX observation of the Large Magellanic Cloud on 1996 Oct. 27-28: "The source position is R.A. = 5h44m06s, Decl. = -71o00'.7 (equinox 2000.0; estimated error radius 40"). The source shows pulsations at a period of 96.079 +/- 0.007 s with a nearly sinusoidal pulse profile. The energy spectrum is well modelled by an absorbed power law with photon index 0.52 +/- 0.08. The unabsorbed flux is 2.9 x 10E-12 erg sE-1 cmE-2 in the energy band 2-10 keV. A public ASCA observation performed on 1996 Sept. 6 confirms the presence of the 96-s pulsations. ROSAT and Einstein data suggest the transient nature of the source."

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