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V5558 SAGITTARII

D. K. Lynch, R. W. Russell, R. J. Rudy, and R. Pearson, Aerospace Corporation; and C. E. Woodward, University of Minnesota, report 0.8- to 2.5-μm spectroscopy of V5558 Sgr (cf. *IAUC* 8832, 8854) using the Infrared Telescope Facility (+ SpeX) on Sept. 12 UT. The nova shows a rich spectrum with many strong, narrow emission lines (FWHM 620 km/s) of H I, He I, O I, Ca II, Fe II, and [N I]. All of the H I lines show P-Cyg profiles, and there is a pronounced Paschen jump. In addition to the P-Cyg profiles on the He I 1.0830- and 2.0581-μm lines, some of the other He I and Fe II lines show P-Cyg profiles, indicating significant optical depths in these lines. There is no evidence of dust formation.

CCD *V* magnitudes from M. Martignoni, Magnago, Italy: Sept. 11.836 UT, 8.33; 12.823, 8.40; 19.792, 8.61.

SUPERNOVAE 2007gw–2007kd

Further to *IAUC* 8864, *CBETs* have announced numerous new supernovae discovered on CCD frames (unfiltered unless otherwise noted): 2007gw by K. Itagaki; 2007hj, 2007il, 2007ir, and 2007is by W. Li *et al.*; 2007hu and 2007hv by A. Sehgal and T. Puckett *et al.*; 2007if and 2007iu by F. Yuan, R. Quimby, *et al.* (ROTSE; cf. *IAUC* 8843); 2007ig by H. Naito (Nishi-Harima Astronomical Observatory; *R*-band images); 2007iq and 2007iv by T. Boles (cf. *IAUC* 8843); 2007iw by L. A. G. Monard; and 2007kc and 2007kd by M. Villi (cf. *IAUC* 8658). SN 2007it was found visually by R. Evans, Hazelbrook, N.S.W.; 2007hw–2007ie, 2007ih–2007ik, and 2007ix–2007kb were found by the Sloan Digital Sky Survey II and communicated by J. Frieman (details on *CBETs* 1057, 1061, 1076, 1079, and 1081); the rest were found on Palomar Schmidt images and reported anonymously by the "Nearby Supernova Factory" collaboration (details on *CBETs* 1043, 1044, 1047, 1050, 1054, and 1063). Discovery observations tabulated for those objects reported to be brighter than mag 17:

SN	2007 UT	α_{2000}	δ_{2000}	Mag.	*Offset*
2007gw	Aug. 24.48	$12^h11^m34^s.60$	$+57^\circ44'15''.9$	16.7	$9''.5$ E, $1''.0$ N
2007hj	Sept. 1.32	23 01 47.89	+15 35 11.4	15.9	$6''.7$ W, $14''.0$ N
2007is	Sept. 14.14	16 47 14.59	+40 14 36.9	16.6	$2''.0$ W, $5''.7$ S
2007it	Sept. 13.44	14 18 25.63	–43 22 53.8	13.5	$24''$ W, $25''$ N
2007kc	Sept. 21.78	13 21 34.92	+42 16 50.0	15.8	$10''$ W, $4''$ S
2007kd	Sept. 23.12	9 25 58.01	+34 37 59.3	16.6	$3''$ E, $12''$ N

2007 September 27 *Daniel W. E. Green*