

Central Bureau for Astronomical Telegrams

INTERNATIONAL ASTRONOMICAL UNION

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SUPERNOVA 2011fe IN M101

P. Skoda and M. Slechta, Astronomical Institute, Ondrejov, Czech Republic, report spectra of SN 2001fe (cf. CBET 2792) obtained with the Ondrejov 2-m telescope. The coude spectrum from the CCD400 camera (resolving power 5800; range 473-589 nm; 0.045 nm/pixel) on Aug. 30.838 UT shows a type-Ia-supernova spectrum resembling that of SN 2003hv from 2003 Sept. 10 (found in the "SUSPECT" archive), but the absorption at 534 nm (544 nm for SN 2011fe) is very shallow. Absorption maxima in the region surrounding the supernova (corrected for $z = 0.000804$) are seen at 577 nm (Si II) and 544 nm (S II), with unidentified shallow absorptions at 530 and 553 nm. The Fe II blend has a minimum at 485 nm. Small absorption is seen at 514 nm, surrounded by two peaks at 509 and 519 nm. An earlier observation on Aug. 28.848 with the CCD700 camera (resolving power 13000; range 626-676 nm; 0.025 nm/pixel) does not show any features in the H_{alpha} region.

Magnitude estimates (visual unless noted otherwise); Aug. 25.802 UT, B = 14.2 +/- 0.2, V = 14.0 +/- 0.2, R = 14.1 +/- 0.3 (B. Mikuz and J. Vales, Crni Vrh Observatory); 25.928, V = 13.83 (W. Souza, Sao Paulo, Brazil; CCD); 25.938, V = 13.82 (Souza); 26.806, B = 13.4 +/- 0.2, V = 13.2 +/- 0.2, R = 13.2 +/- 0.2 (Mikuz and Vales); 26.899, V = 13.09 (Souza); 27.946, V = 12.45 (Souza); 27.83, B = 12.64 +/- 0.07 (F. Castellani and R. Belligoli, Monte Baldo, Italy); 27.85, V = 12.61 +/- 0.05 (Castellani and Belligoli); 27.86, R = 12.46 +/- 0.08, I = 12.29 +/- 0.08 (Castellani and Belligoli); 27.800, 11.3 (G. Masi, Ceccano, Italy; unfiltered CCD, peaking in the red); 27.872, 12.1 (J. Carvajal, Avila, Spain); 28.82, B = 12.14 +/- 0.10, V = 12.17 +/- 0.06 (Castellani and Belligoli); 28.83, R = 11.94 +/- 0.06 (Castellani and Belligoli); 28.84, I = 11.81 +/- 0.08 (Castellani and Belligoli); 28.975, V = 11.97 (Souza); 29.899, V = 11.69 (Souza); 31.796, 10.8 (Masi); 31.845, 11.1 (P. Schmeer, Bischmisheim, Germany).

NOTE: These 'Central Bureau Electronic Telegrams' are sometimes superseded by text appearing later in the printed IAU Circulars.

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