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ASASSN-15lu is a Type Ia Supernova

Leonard, D.C.; Sheehan, P.; McCarthy, D.; Follette, K.; Moustakas, J.; Cantillo, D.; Cazares-Kelly, A.; Cazares-Kelly, S.; Cendes, Y.; Damm, N.; Donati, A.; Douglas, E.; Ferrell, L.; Fosbinder-Elkins, H.; Fox, C.; Greenberg, M.; Hart, K.; Hensley, H.; Holt, A.; Hooper, E.; Juran, C.; Keane, J.; Key, K.; Korus, L.; Lee, T.; Leidig, K.; Merchak, E.; Nessmann, K.; Pendyala, S.; Pirkl, S.; Reeder, J.; Roos, A.; Rounseville, S.; Ruddy, E.; Schlingman, A.; Schlingman, W.; Schwartzman, E.; Shanmugam, V.; Silver, E.; Stein, A.; Stock, N.; Svoboda, B.; Thomas, B.; Thomas, N.; Thompson-Taylor, K.; Walton, H.

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ASASSN-15lu is a Type Ia Supernova

ATel #7707; *D. C. Leonard (San Diego State University), P. Sheehan, D. McCarthy (University of Arizona), K. Follette (Stanford University), J. Moustakas (Siena College), D. Cantillo, A. Cazares-Kelly, S. Cazares-Kelly, Y. Cendes, N. Damm, A. Donati, E. Douglas, L. Ferrell, H. Fosbinder-Elkins, C. Fox, M. Greenberg, K. Hart, H. Hensley, A. Holt, E. Hooper, C. Juran, J. Keane, K. Key, L. Korus, T. Lee, K. Leidig, E. Merchak, K. Nessmann, S. Pendyala, S. Pirkl, J. Reeder, A. Roos, S. Rounseville, E. Ruddy, A. Schlingman, W. Schlingman, W. Schlingman, E. Schwartzman, V. Shanmugam, E. Silver, A. Stein, N. Stock, B. Svoboda, B. Thomas, N. Thomas, K. Thompson-Taylor, H. Walton (2015 Advanced Teen Astronomy Camp)*

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We report spectroscopic classification of ASASSN-15lu (ATel #7698) in SDSS J132112.88+401556.7 ($z=0.035037$, via NED) through inspection of an optical spectrum (range 370-680 nm, resolution 0.8 nm), obtained with the 2.3-m Bok telescope (+ Boller & Chivens spectrograph) at Kitt Peak on 2015 June 24.2 UT.

ASASSN-15lu is a Type Ia supernova; cross-correlation with a library of supernova spectra using the "Supernova Identification" code (SNID; Blondin and Tonry 2007, ApJ, 666, 1024) finds best matches with a number of normal Type-Ia supernovae at the redshift of SDSS J132112.88+401556.7 a few days before maximum light. The most convincing spectral matches are with SN 2006S, which has been classified as a "Shallow Silicon" event (Blondin et al. 2012, AJ, 143, 126) according to the spectroscopic classification scheme of Branch et al. (2006, PASP, 118, 560). We derive an expansion velocity of 10,800 km/s from the position of the Si-II (rest 635.5 nm) minimum.

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