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Asiago spectroscopic classification of SN 2020gpe and AT 2020hhg

ATel #13640; *E. Cappellaro, S. Benetti, L. Tomasella, M. Turatto*
on 16 Apr 2020; 08:09 UT

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Subjects: Supernovae

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The Asiago Transient Classification Program (Tomasella et al. 2014, AN, 335, 841) reports the spectroscopic observation of [SN 2020gpe](#) and [AT 2020hhg](#).

The targets were supplied by the Italian Supernova Search Proget (ISSP, <http://italiansupernovae.org>) and Zwicky Transient Facility (<https://www.ztf.caltech.edu/>; Kulkarni et al. 2018, ATel #11266), and reported in the Transient Name Server (TNS).

The observations were obtained with the Asiago 1.82m Copernico Telescope (+ AFOSC grism#4; range 340-820 nm; resolution 1.4 nm).

Survey name	IAU name	Host galaxy	Disc. Date (UT)	Obs. Date (UT)	redshift	type	phase	notes
AT 2020gpe	SN 2020gpe	NGC 6214	2020-04-12 14:01:00.00	2020-04-16 00:57:42.8	0.025414	II	young	1
ZTF20aaurhdm	AT 2020hhg	Galactic	2020-04-14 10:50:44.16	2020-04-16 01:46:28.8	0	CV	-	2

(1) The spectrum is consistent with those of SN II/Ib few days after explosion. The redshift is from NED .

(2) The spectrum shows a strong blue continuum and a weak Halpha emission core which is surrounded by broad absorption troughs. Higher Balmer lines, as well as He I features, are in pure absorption.

The classification was performed using the GELATO (Harutyunyan et al. 2008, A&A, 488, 383) and SNID (Blondin and Tonry 2007, ApJ, 666, 1024) tools.

The Asiago classification spectra are posted at the website <http://sngroup.oapd.inaf.it>.

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