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Erratum: On the diversity of superluminous supernovae: ejected mass as the dominant factor

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This is an erratum to the paper ‘On the diversity of superluminous supernovae: ejected mass as the dominant factor’, published in MNRAS, 2015, 452.

We have noticed that some of the supernova peak magnitudes in Table 1 are given in the wrong rows. The error affected the rows

‘PS1-11ap’ to ‘PS1-10ky’, with each magnitude displaced downwards by one cell. The nature of this error is purely typographic. Originally, the objects were grouped into high- and low-redshift bins, rather than by wavelength coverage; the error occurred when moving PS1-11ap from the high-*z* group into the ‘Gold’ coverage group. This does not affect any of the other tables, figures, or analysis in the paper.

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Table 1. SLSNe in our sample.

Name	Type	z	M_{griz}^*	Reference
'Gold' sample: rest-frame $gri(z)$ coverage				
SN2007bi	Ic [†]	0.127	−20.20	Gal-Yam et al. (2009)
SN2008es	II	0.205	−21.43	Gezari et al. (2009), Miller et al. (2009)
SN2010gx	Ic	0.230	−20.64	Pastorello et al. (2010), Quimby et al. (2011)
SN2011ke	Ic	0.143	−20.69	Inserra et al. (2013)
SN2011kf	Ic	0.245	−20.80	Inserra et al. (2013)
SN2012il	Ic	0.175	−20.73	Inserra et al. (2013)
SN2013dg	Ic	0.265	−20.30	Nicholl et al. (2014)
SN2013hx	II	0.130	−20.84	Inserra et al. (in preparation)
LSQ12dlf	Ic	0.255	−20.68	Nicholl et al. (2014)
LSQ14mo	Ic	0.253	−19.95	Chen et al. (in preparation)
LSQ14bdq	Ic	0.347	−21.68	Nicholl et al. (2015)
PTF10hgi	Ic	0.100	−19.61	Inserra et al. (2013)
PTF11rks	Ic	0.190	−20.01	Inserra et al. (2013)
PTF12dam	Ic [†]	0.107	−20.56	Nicholl et al. (2013)
CSS121015	II	0.287	−22.00	Benetti et al. (2014)
SSS120810	Ic	0.156	−20.45	Nicholl et al. (2014)
PS1-11ap	Ic [†]	0.524	−20.54	McCrum et al. (2014)
'Silver' sample: rest-frame g band with bolometric correction				
SN2005ap	Ic	0.283	−21.22	Quimby et al. (2007)
SCP06F6	Ic	1.189	−21.56	Barbary et al. (2009)
PTF09cnd	Ic	0.258	−21.34	Quimby et al. (2011)
PTF09cwl	Ic	0.349	−21.15	Quimby et al. (2011)
PS1-10ky	Ic	0.956	−21.24	Chomiuk et al. (2011)
PS1-10bzj	Ic	0.650	−20.32	Lunnan et al. (2013)
iPTF13ajg	Ic	0.740	−21.50	Vreeswijk et al. (2014)

*Pseudo-bolometric magnitude at maximum light; [†]Described in the literature as a slowly declining event.

REFERENCES

- Barbary K. et al., 2009, ApJ, 690, 1358
 Benetti S. et al., 2014, MNRAS, 441, 289
 Chomiuk L. et al., 2011, ApJ, 743, 114
 Gal-Yam A. et al., 2009, Nature, 462, 624
 Gezari S. et al., 2009, ApJ, 690, 1313
 Inserra C. et al., 2013, ApJ, 770, 128
 Lunnan R. et al., 2013, ApJ, 771, 97
 McCrum M. et al., 2014, MNRAS, 437, 656
 Miller A. et al., 2009, ApJ, 690, 1303
 Nicholl M. et al., 2013, Nature, 502, 346
 Nicholl M. et al., 2014, MNRAS, 444, 2096
 Nicholl M. et al., 2015, ApJ, 807, L18
 Pastorello A. et al., 2010, ApJ, 724, L16
 Quimby R. M., Aldering G., Wheeler J. C., Höflich P., Akerlof C. W., Rykoff E. S., 2007, ApJ, 668, L99
 Quimby R. M. et al., 2011, Nature, 474, 487
 Vreeswijk P. M. et al., 2014, ApJ, 797, 24

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