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Spectra of Hydrogen-poor Superluminous Supernovae from the Palomar Transient Factory

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Article

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



















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Erratum: “Spectra of Hydrogen-poor Superluminous Supernovae from the Palomar Transient Factory” (2018, ApJ, 855, 2)

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1. Corrected Figures

Figures 12 and 39 are incorrectly rendered in the published article. The upper left panel of Figure 12 shows a copy of the lower left panel instead of the $-1.0 < \phi < -0.3$ phase range as intended. Figure 39 is a duplicate of Figure 41 instead of showing the spectral model in the $-1.5 < \phi < -0.5$ phase range as intended. Here we provide the correct versions of Figures 12 and 39 along with their original captions.

²³ Miller Senior Fellow.



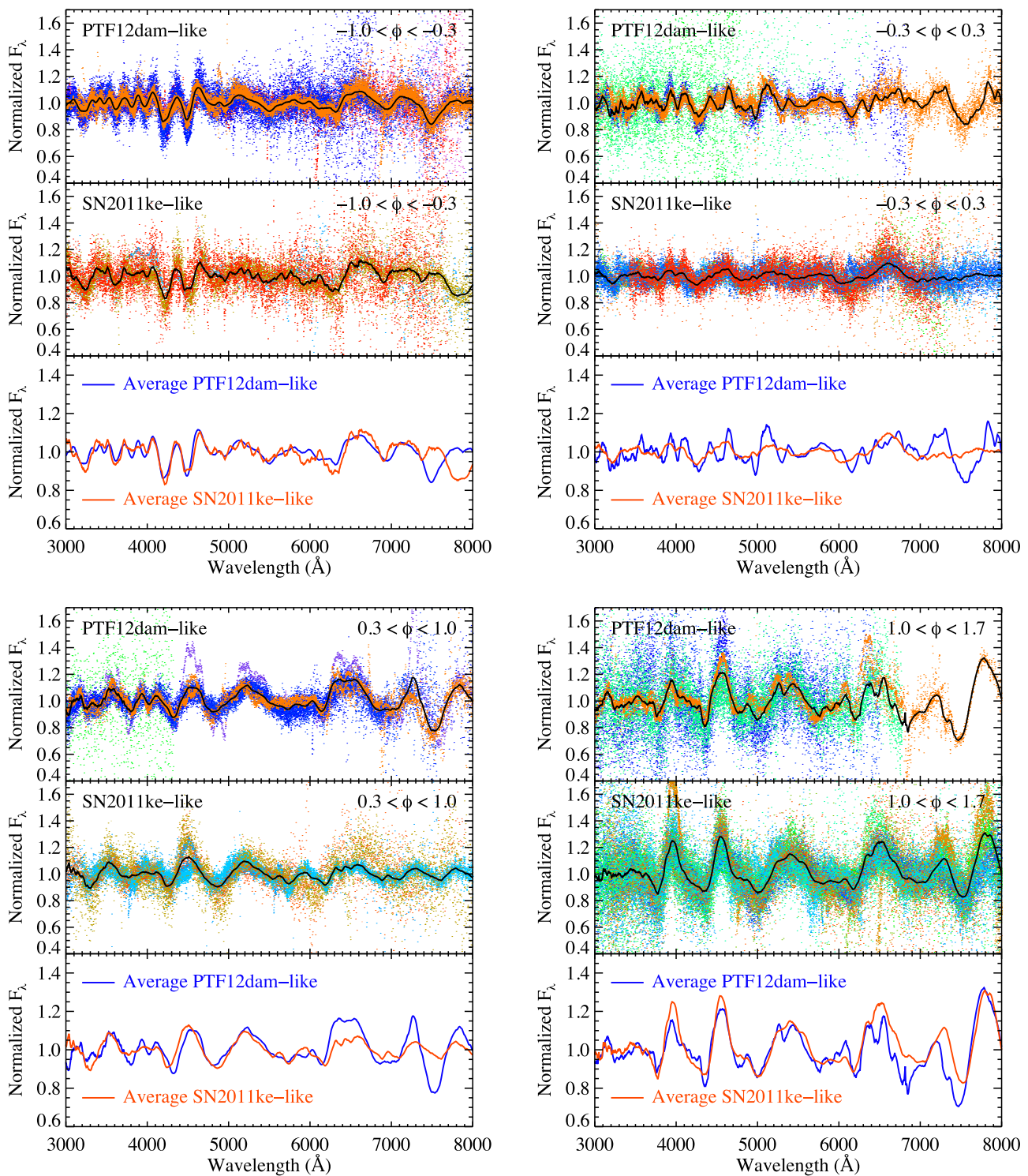


Figure 12. Average spectra of SLSNe-I with spectral phases in different ranges. Events deemed more spectroscopically similar to PTF12dam or SN 2011ke are shown in the top and middle panels of each plot, respectively. The spectra have been continuum divided. Dots show measurements from individual events (color coded as in Figures 6–9), and the black lines indicate these combined data smoothed with a generalized Savitzky–Golay filter. The lower panel in each plot shows only these averaged spectra for comparison.

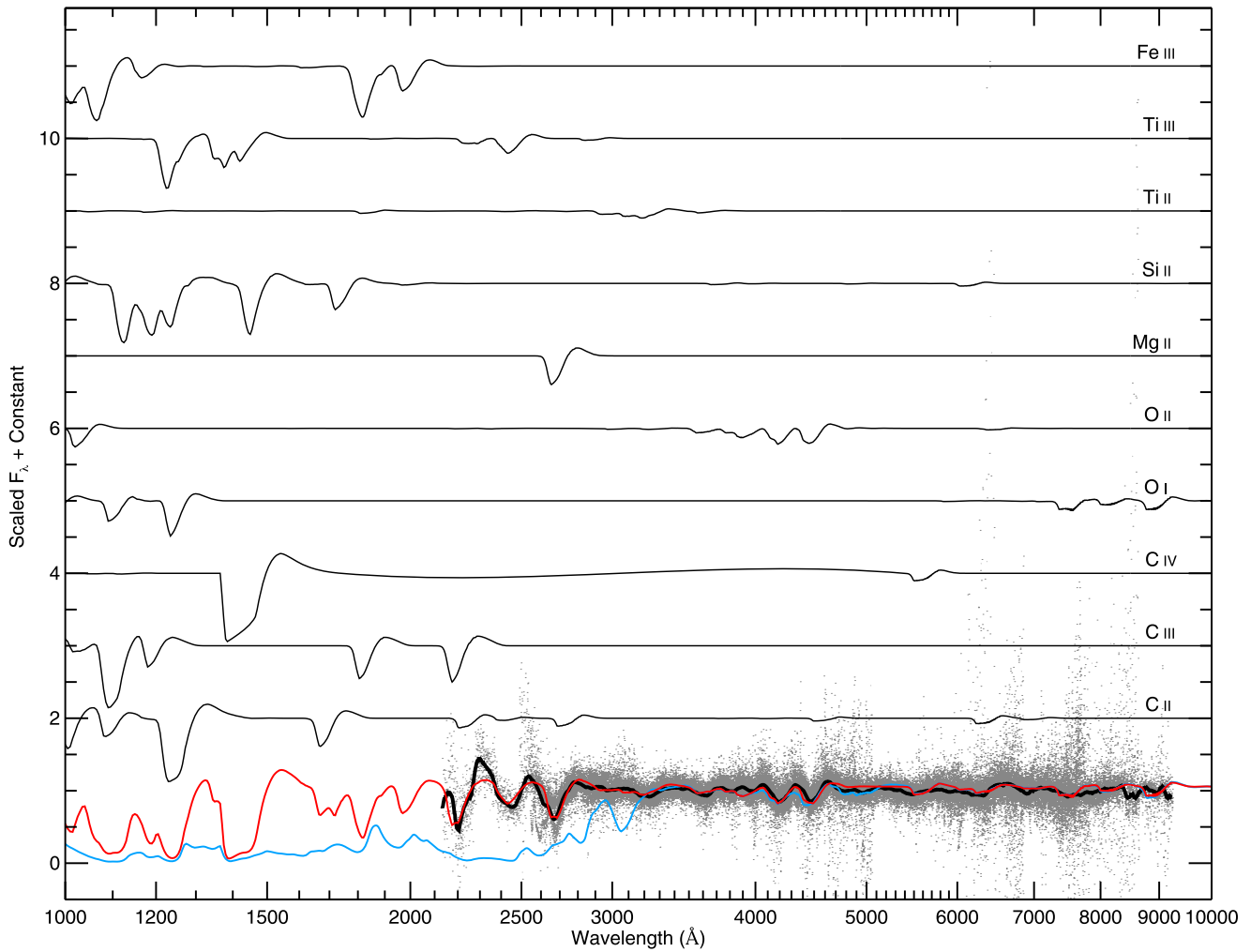


Figure 39. Synthetic spectral model (red) from `syn++` compared to the average of SLSN-I spectra in the range $-1.5 < \phi < -0.5$ (thick black line). The spectra have been continuum divided to emphasize the features. Gray points show contributions to the average spectrum from individual object spectra. Contributions to the `syn++` fit from each individual ion are plotted with thin black lines and shifted vertically for clarity. The blue curve shows the effect of adding Fe II to the model. The absorption near 4900 Å, can be well fit with this change, but in doing so the `syn++` models predict a strong feature at about 3050 Å and severe line blanketing below 3000 Å, which is not observed.

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