
Reanalysis of the HST 2001 SNe



Rahman Amanullah
Stockholm University

- The spring 2001 search campaign resulted in the discovery of 13 candidates.
- Five of these, in the redshift range $0.5 < z < 1.1$, were followed by the HST.
- The lightcurves have been built and fitted by Julien Raux and are presented in his thesis.
- I am doing a cross check of his analysis using the same software that was applied in the Knop 2003 paper.

$$\begin{aligned} f(x, y, i) = & B [T_i(x, y), b_j] + \\ & + f_i \cdot \text{psf}(x - x'_i, y - y'_i) + p_i \end{aligned}$$

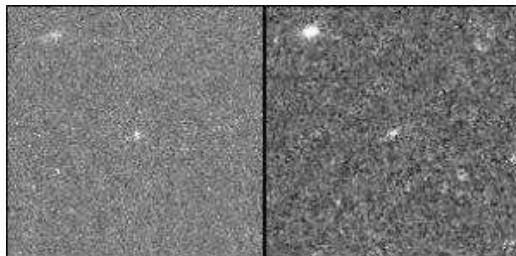
Follow-up and reference images

Follow-up images were taken with WFPC2, and four of the SNe have ACS references.

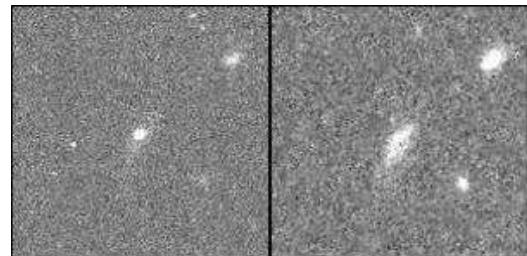
Salieri (SN2001gq)



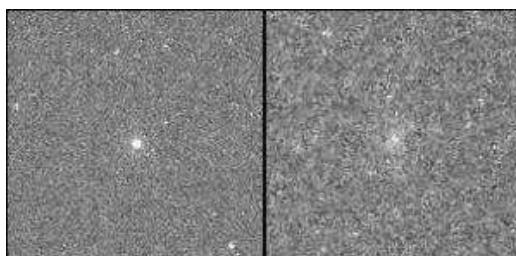
Boccherini (SN2001gn)



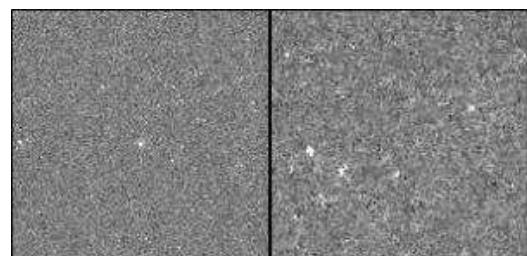
Massenet (SN2001gy)



Bruch (SN2001go)

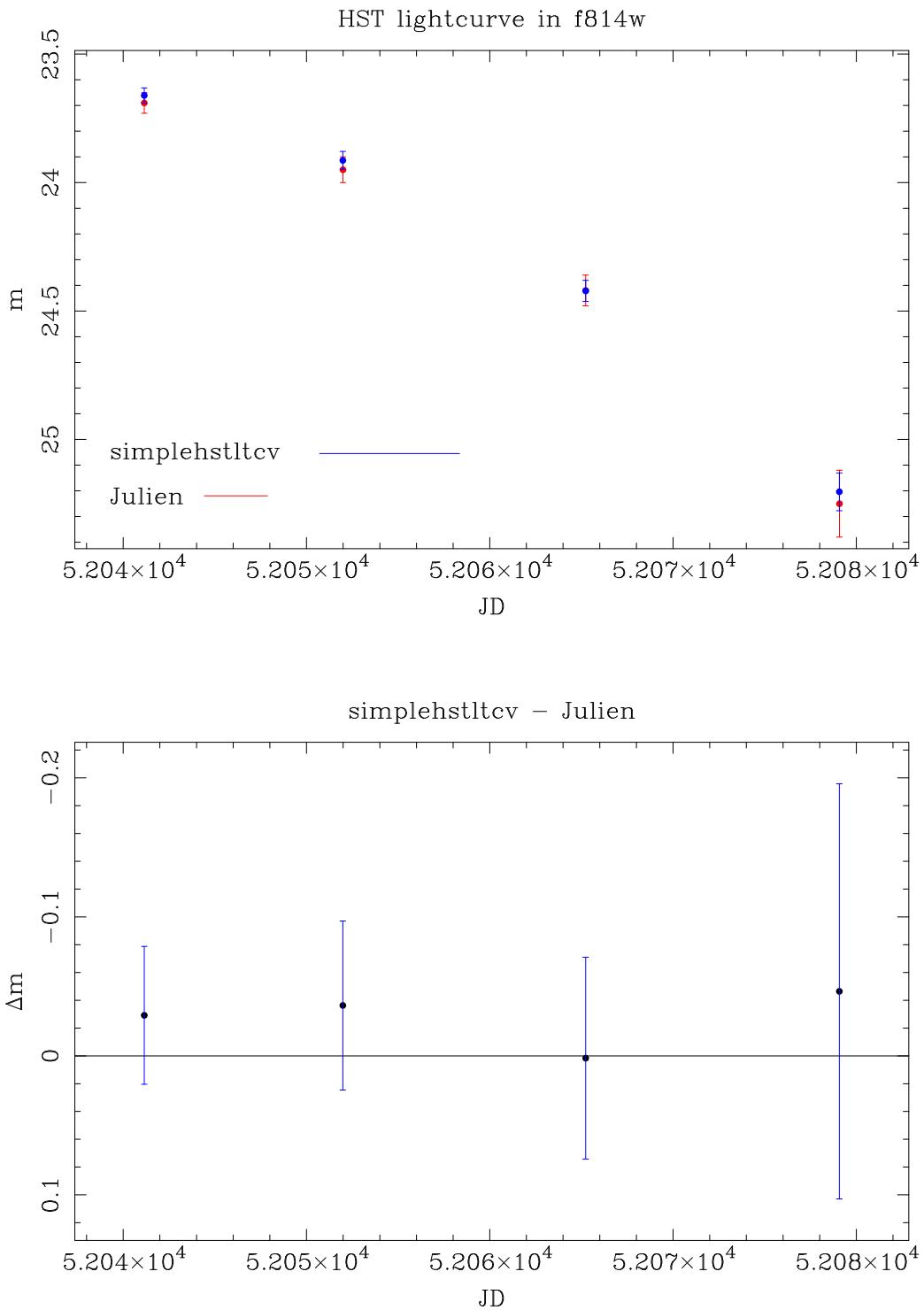


Satie (SN2001hb)

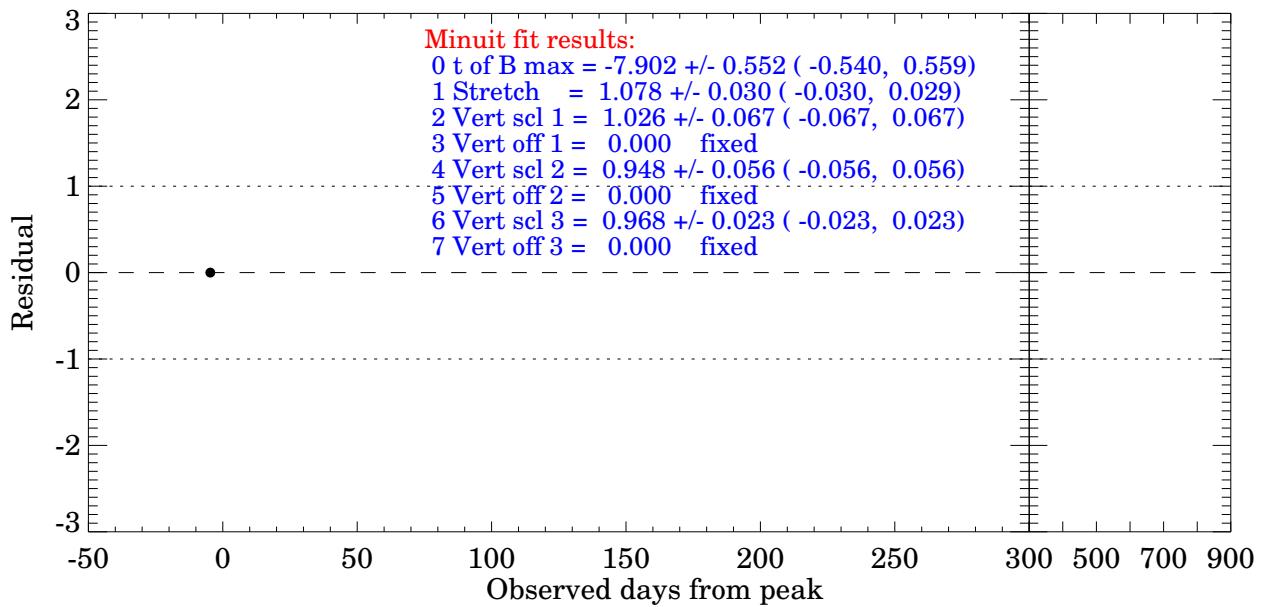
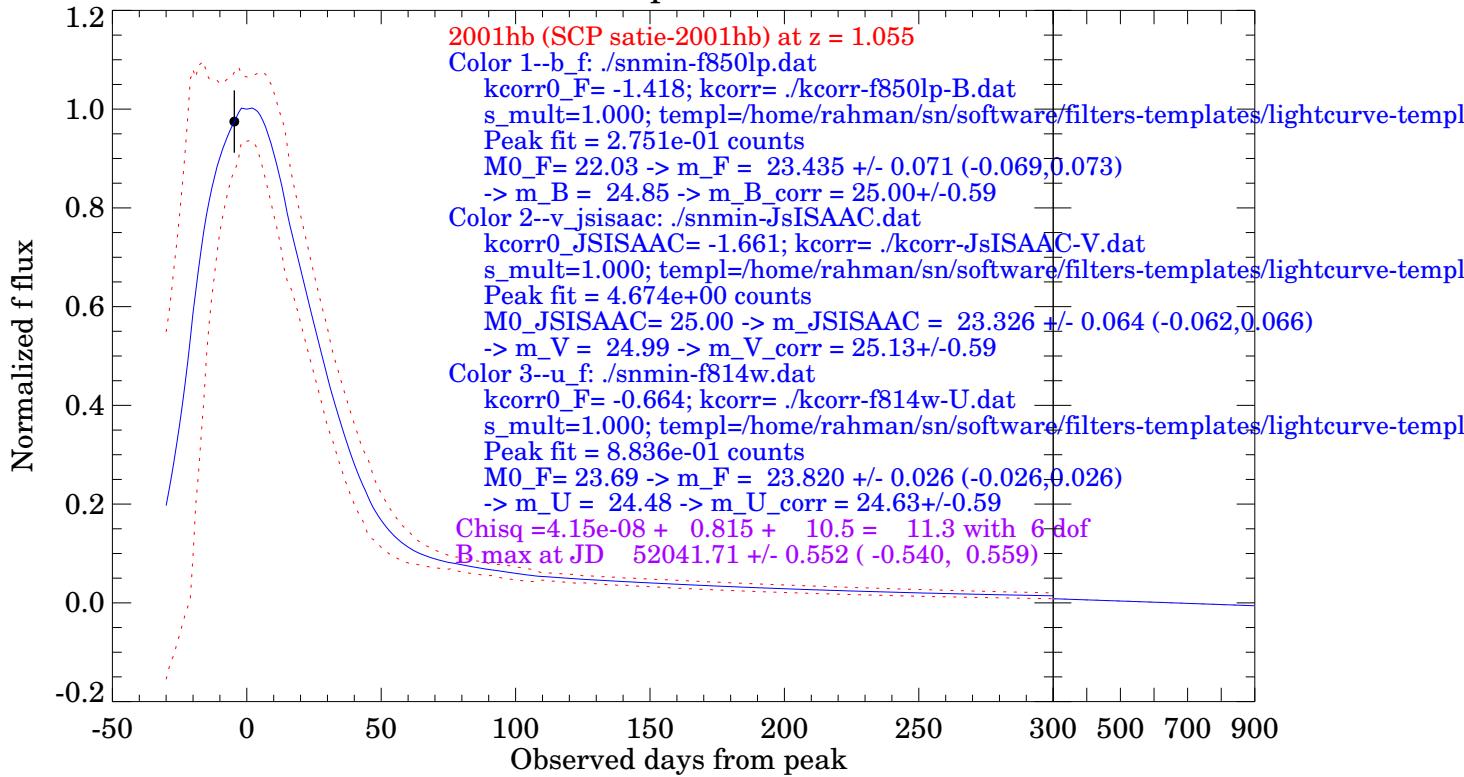


I started with the easy case – Satie (SN2001hb)

Current status

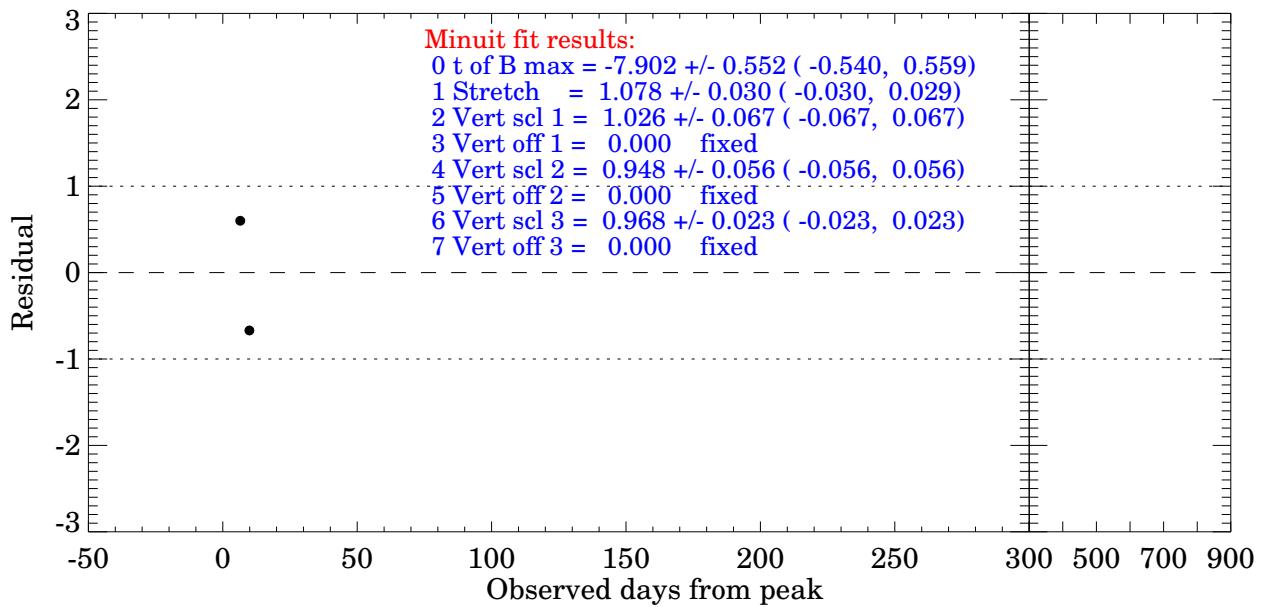
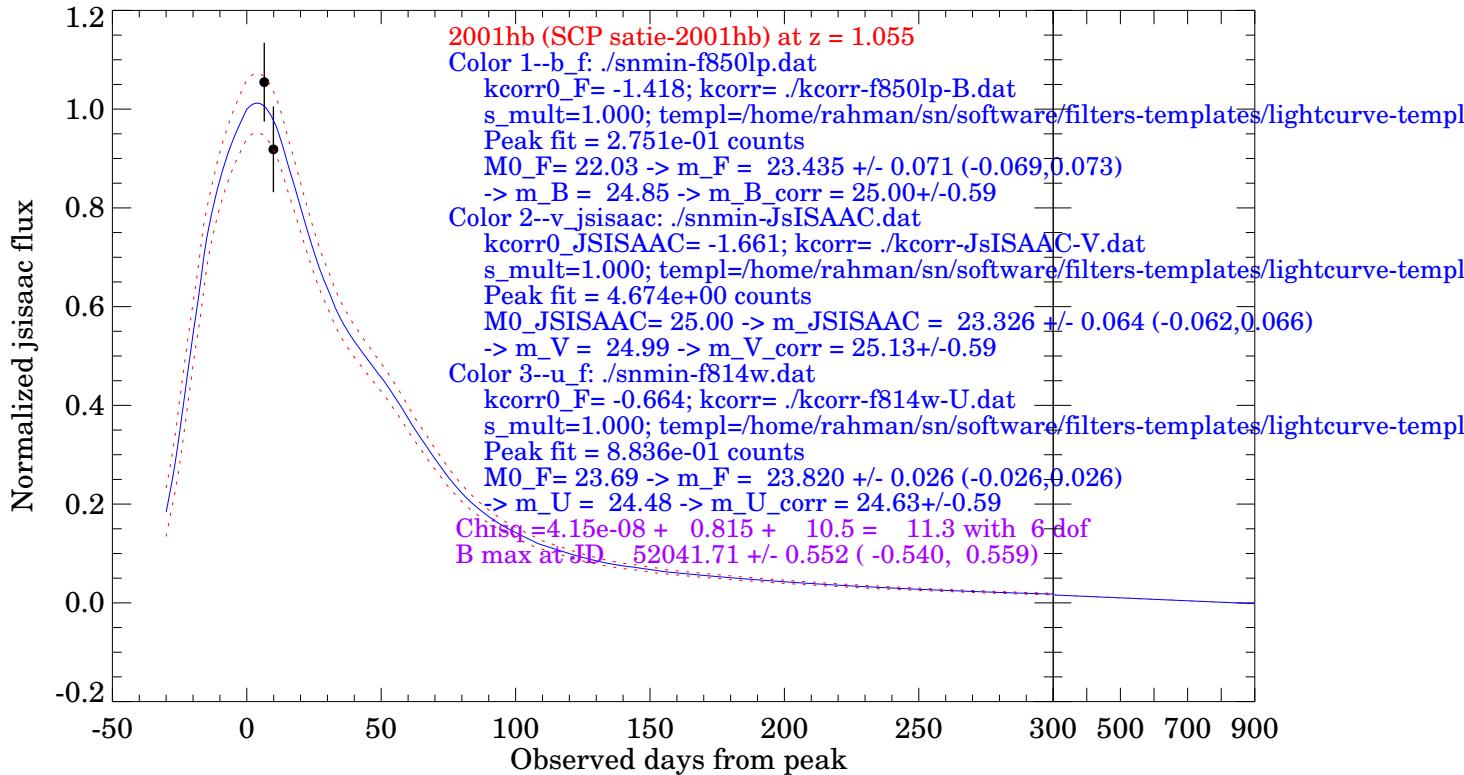


./snmin-f850lp.dat



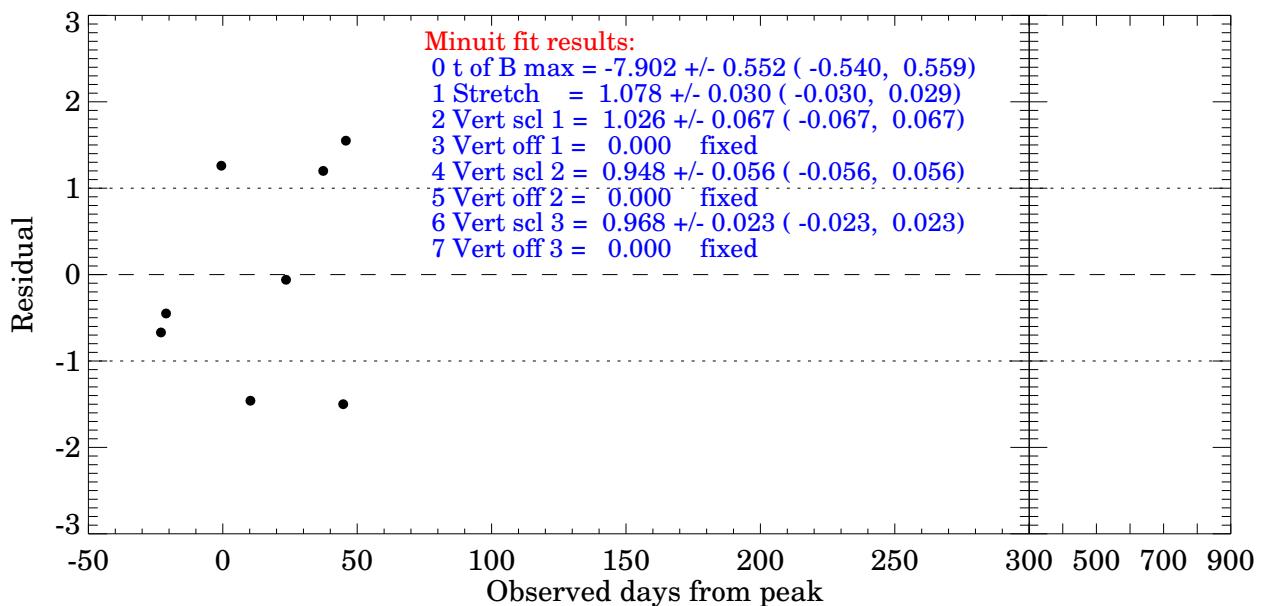
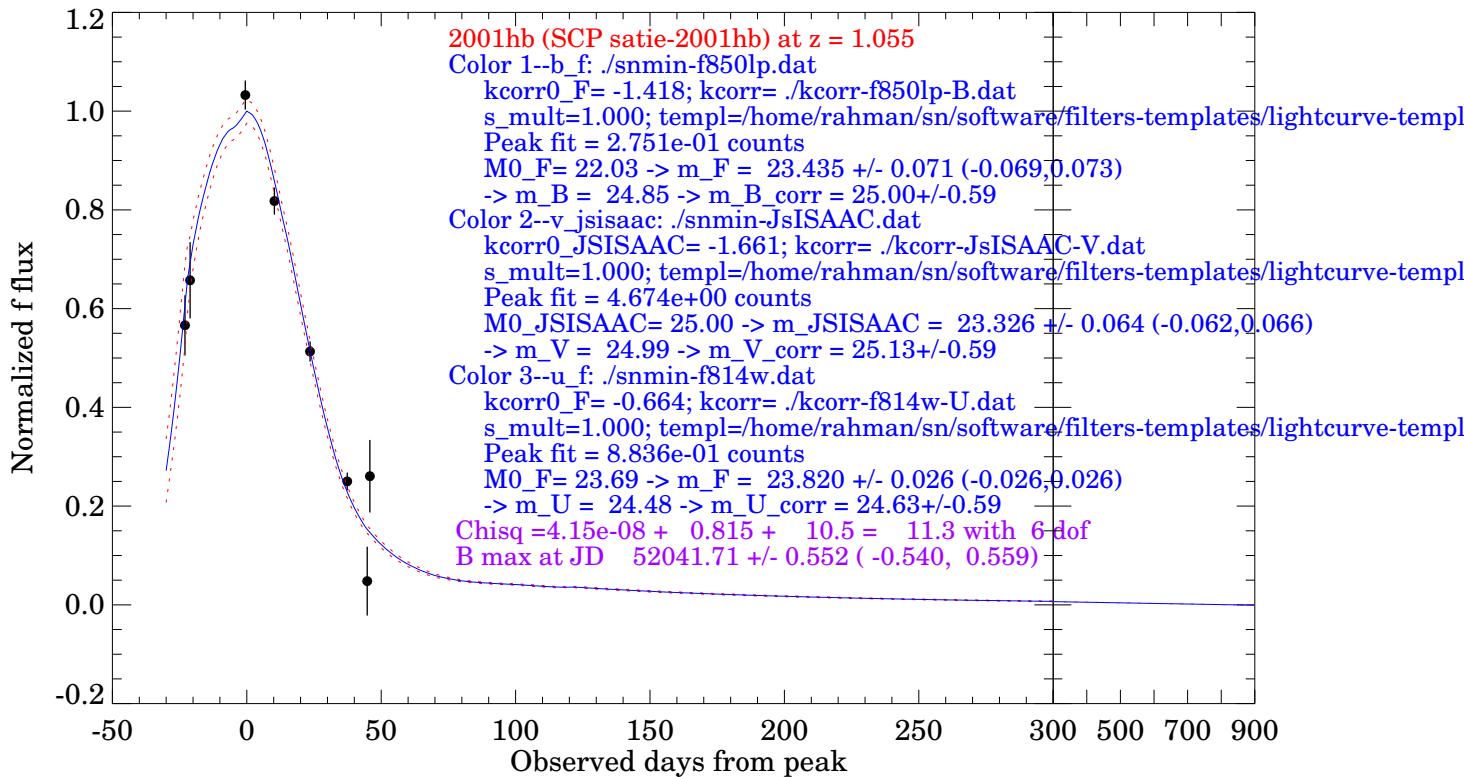
satie-2001hb at $z = 1.055$: Sat Nov 6 15:19:36 2004

./snmin-JsISAAC.dat



satie-2001hb at z = 1.055: Sat Nov 6 15:19:36 2004

./snmin-f814w.dat



satie-2001hb at $z = 1.055$: Sat Nov 6 15:19:36 2004

Next steps

1. Salieri (SN2001gq), no ACS references. The host and SN are well separated. Should be easy!
2. Write a background class for simplehstltcv that uses an image patch as background model together with some parameters such as position, scaling etc.
3. CTE corrections for ACS, Vanderbilt?