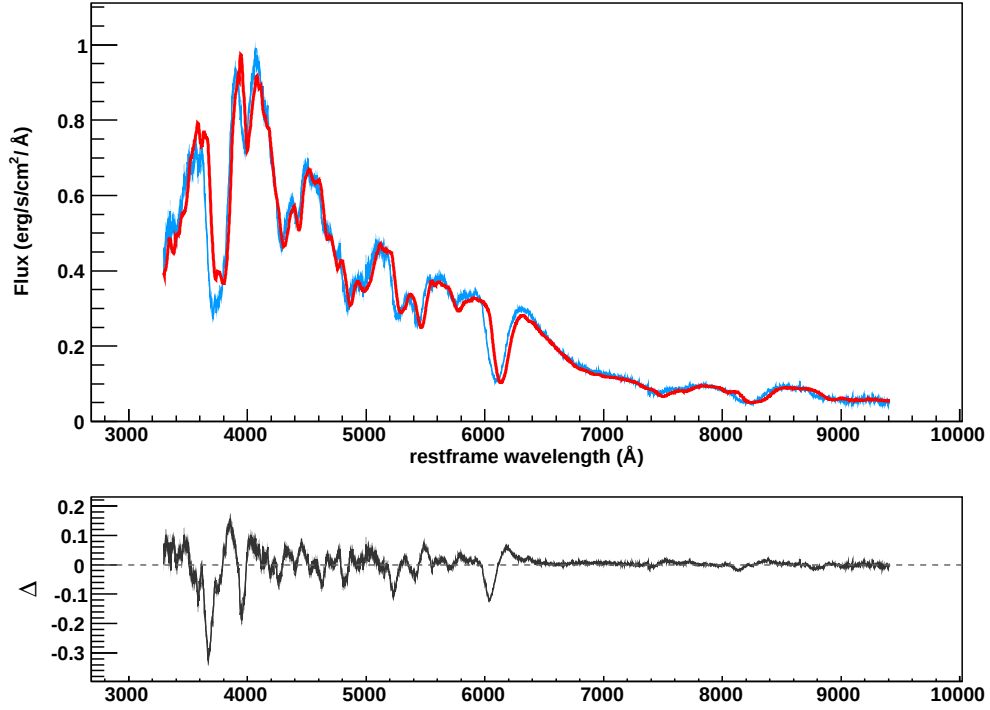


SN2007bd__07_105_043_003

training/SN2007bd/SN2007bd_M000432_restframe.list

z = 0.032, phase = -0.4324 jours, color = -0.016, stretch = 0.8858 (x1 = -1.0848)



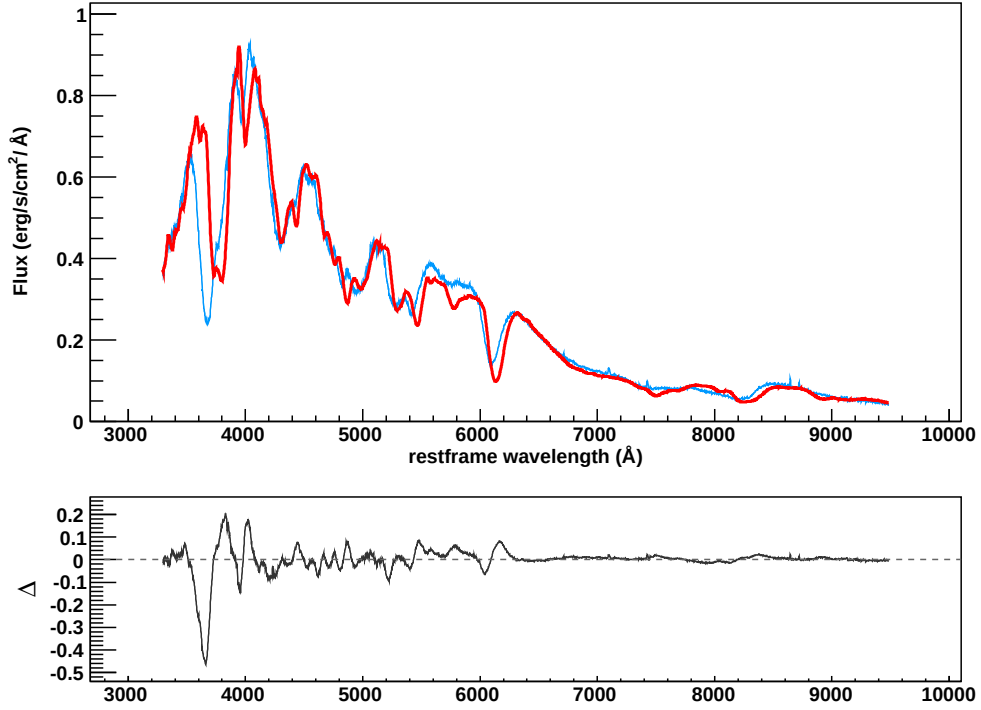
SN2007bd__07_105_043_003 spectrum (phase=-0.4324) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 12.3942$

$$\begin{aligned}EW_{Ca} &= 119.229 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -22.3856311533 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.324815695302 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2430.37974684 \\ \chi^2_v \text{ without error} &= 0.00196393306583\end{aligned}$$

PTF09dn1__09_243_050_003

training/PTF09dn1/PTF09dn1_M000728_restframe.list

z = 0.023, phase = -0.7286 jours, color = 0.1464, stretch = 1.0375 (x1 = 0.621)



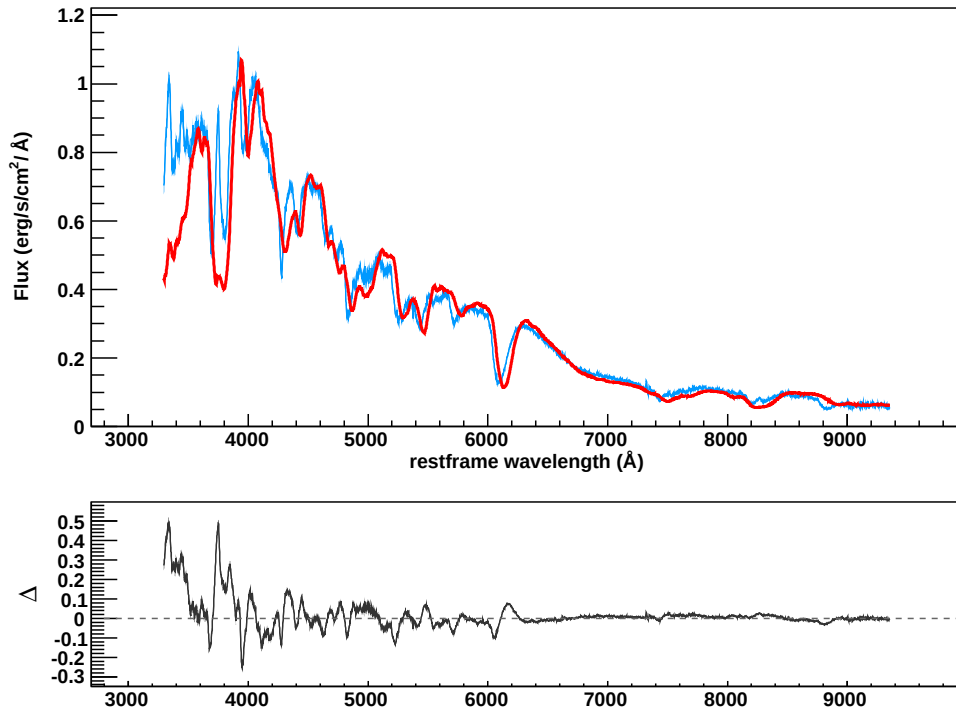
PTF09dn1__09_243_050_003 spectrum (phase=-0.7286) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 101.595$

$$\begin{aligned}EW_{Ca} &= 131.471 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -25.2888342317 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.464643592587 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -7443.03797468 \\ \chi^2_v \text{ without error} &= 0.00385821132844\end{aligned}$$

PTF09dnp__09_239_052_003

validation/PTF09dnp/PTF09dnp_M001253_restframe.list

$z = 0.0376$, phase = -1.2538 jours, color = -0.0058, stretch = 0.8564 ($x1 = -1.4537$)



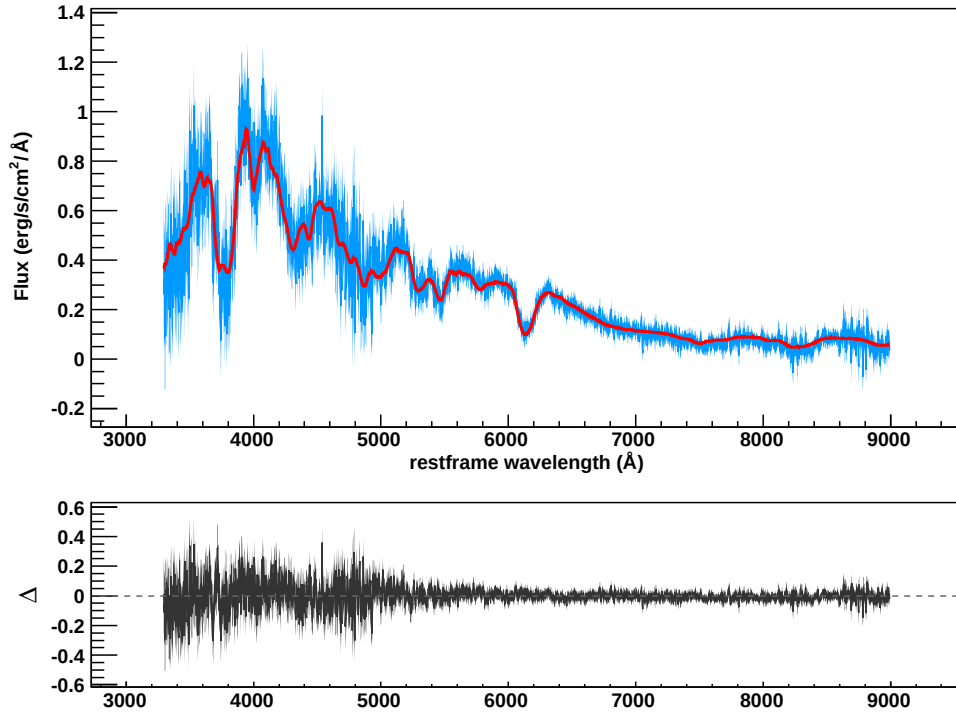
PTF09dnp__09_239_052_003 spectrum (phase=-1.2538) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 27.0945$

$$\begin{aligned}EW_{Ca} &= 74.9821 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 34.2094754464 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.157720819703 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2810.12658228 \\ \chi^2_v \text{ without error} &= 0.00685721460463\end{aligned}$$

SNF20080910-007__08_257_089_003

training/SNF20080910-007/SNF20080910-007_P000135_restframe.list

z = 0.0782, phase = 0.1353 jours, color = -0.0102, stretch = 0.9822 (x1 = 0.024)



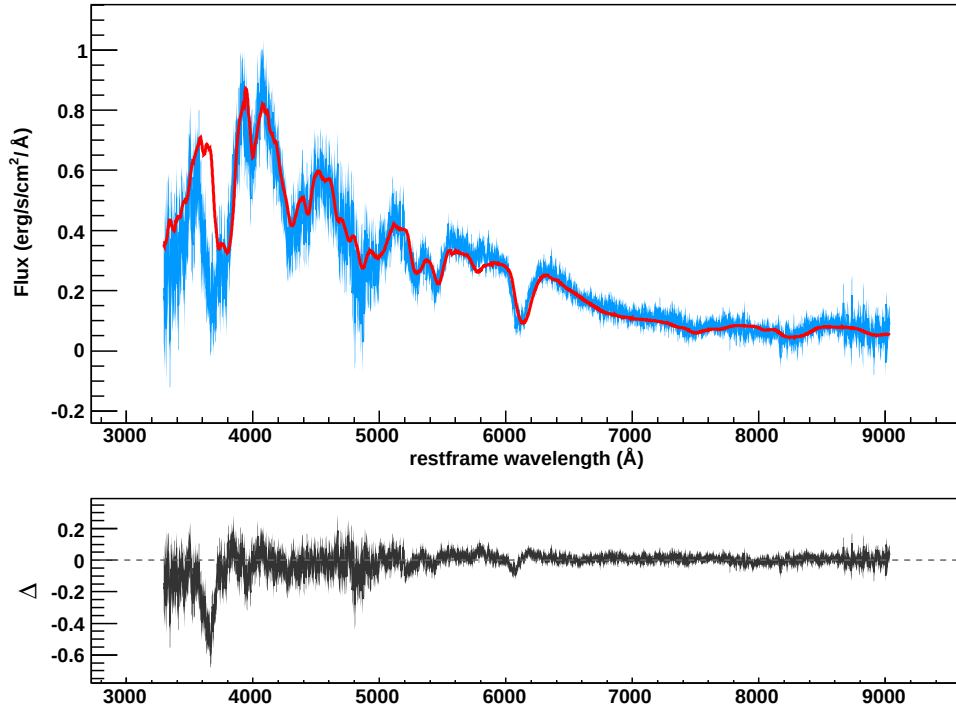
SNF20080910-007__08_257_089_003 spectrum (phase=0.1353) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.52654$

$$\begin{aligned}EW_{Ca} &= 106.601 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 7.15872413751 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.305872793385 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 531.64556962 \\ \chi^2_v \text{ without error} &= 0.0043331377358\end{aligned}$$

SNF20070818-001__07_235_065_003

training/SNF20070818-001/SNF20070818-001_M001071_restframe.list

z = 0.0728, phase = -1.0712 jours, color = 0.1185, stretch = 0.94 (x1 = -0.4467)



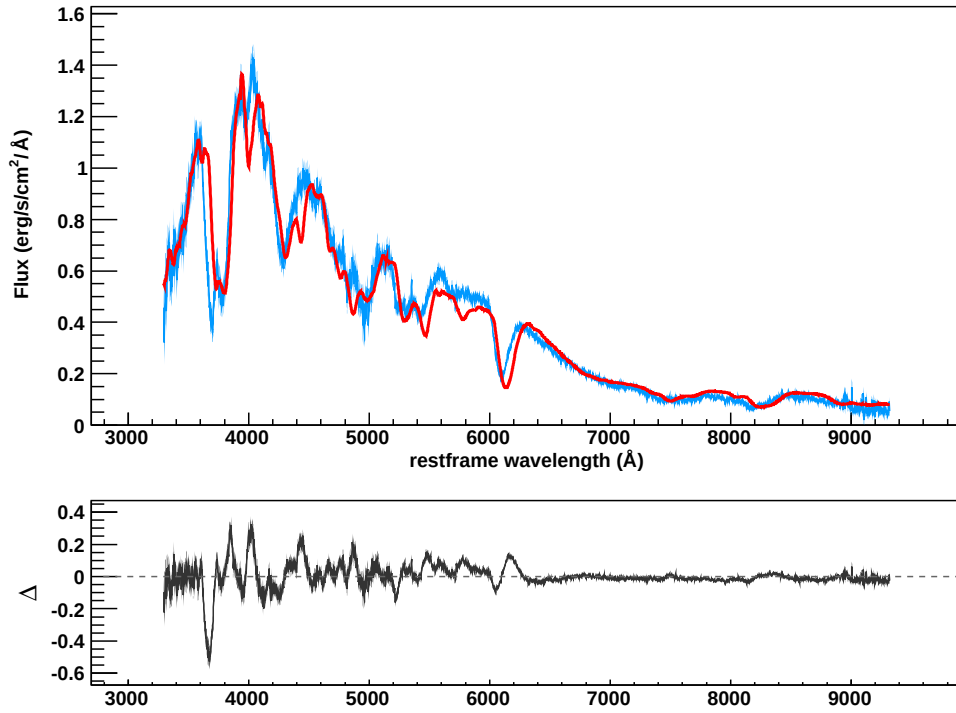
SNF20070818-001__07_235_065_003 spectrum (phase=-1.0712) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.928332$

$$\begin{aligned}EW_{Ca} &= 155.042 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -51.6552513625 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.583933842121 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -7367.08860759 \\ \chi^2_v \text{ without error} &= 0.00619325942315\end{aligned}$$

SNF20070330-024__07_098_116_003

training/SNF20070330-024/SNF20070330-024_P000202_restframe.list

z = 0.0421, phase = 0.2022 jours, color = -0.0053, stretch = 1.0035 (x1 = 0.2562)



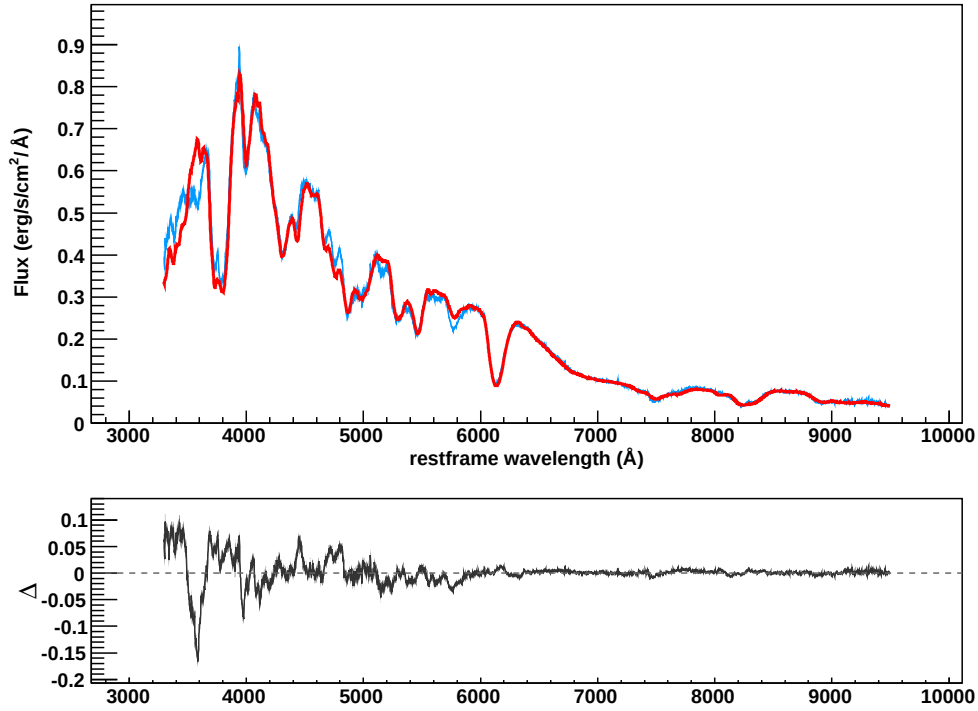
SNF20070330-024__07_098_116_003 spectrum (phase=0.2022) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 5.94617$

$$\begin{aligned}EW_{Ca} &= 124.767 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -19.3940057562 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.532336643277 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -455.696202532 \\ \chi^2_v \text{ without error} &= 0.00572694532795\end{aligned}$$

SNF20080514-002__08_147_064_006

training/SNF20080514-002/SNF20080514-002_M000087_restframe.list

z = 0.023, phase = -0.0875 jours, color = -0.0684, stretch = 0.8163 (x1 = -1.9953)



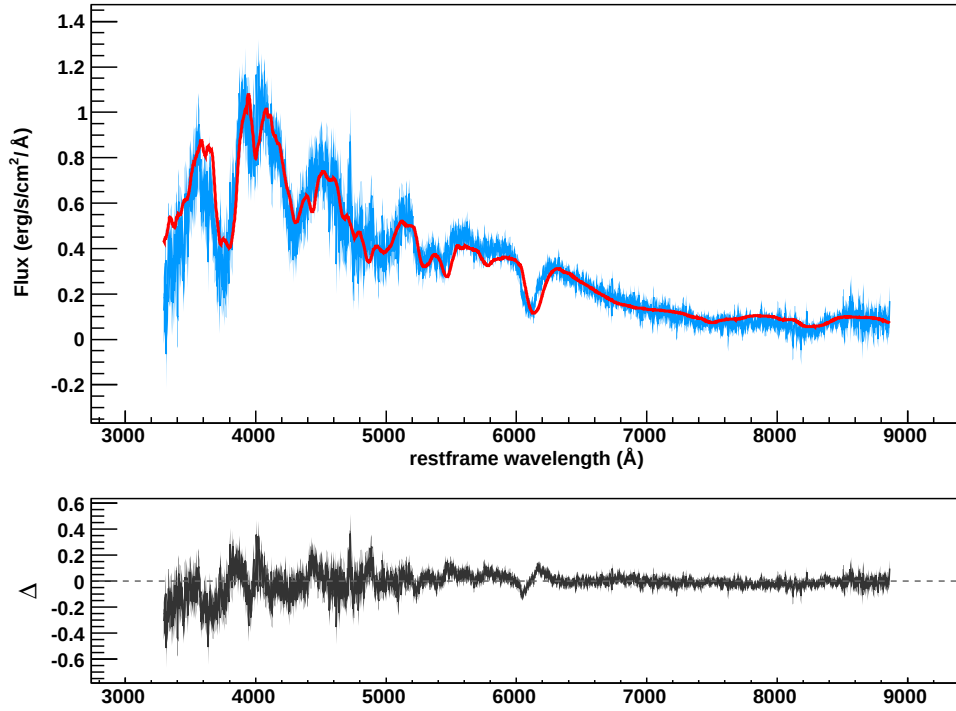
SNF20080514-002__08_147_064_006 spectrum (phase=-0.0875) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 6.89267$

$$\begin{aligned}EW_{Ca} &= 82.3184 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 6.31863934817 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.166097381871 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 607.594936709 \\ \chi^2_v \text{ without error} &= 0.000577513307017\end{aligned}$$

SNF20070420-001__07_120_057_003

training/SNF20070420-001/SNF20070420-001_P001580_restframe.list

$z = 0.0959$, phase = 1.5803 jours, color = 0.0013, stretch = 1.0148 ($x1 = 0.3785$)



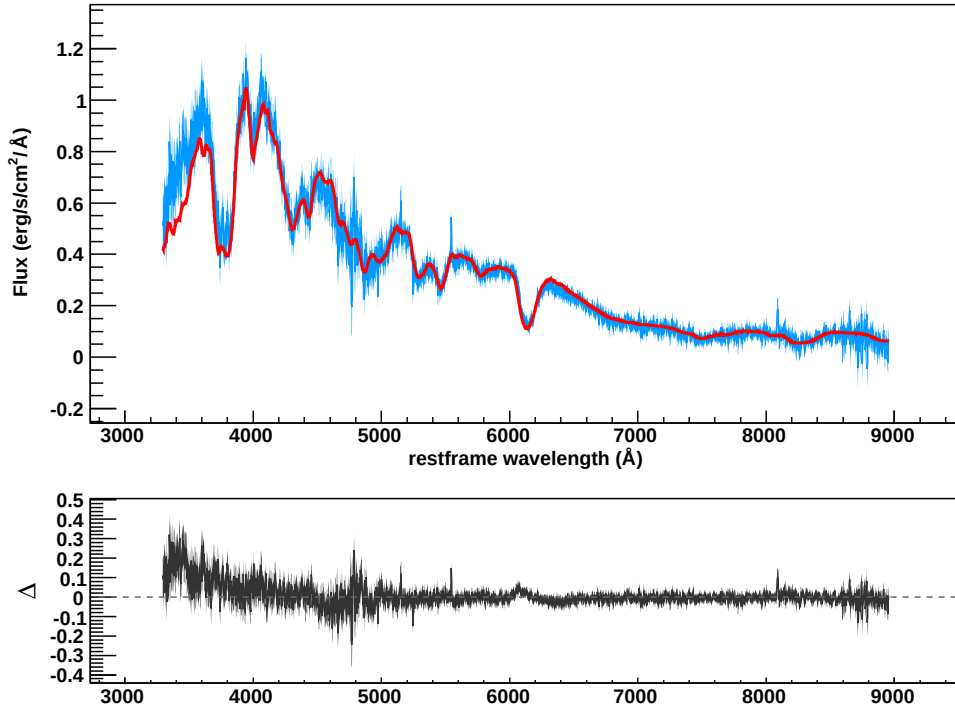
SNF20070420-001__07_120_057_003 spectrum (phase=1.5803) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.00867$

$$\begin{aligned}EW_{Ca} &= 130.446 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -26.4018253893 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.509095334989 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1898.73417722 \\ \chi^2_v \text{ without error} &= 0.0066557771155\end{aligned}$$

SNF20080323-009__08_094_083_003

validation/SNF20080323-009/SNF20080323-009_P000559_restframe.list

z = 0.0834, phase = 0.5594 jours, color = -0.0088, stretch = 0.9753 (x1 = -0.0519)



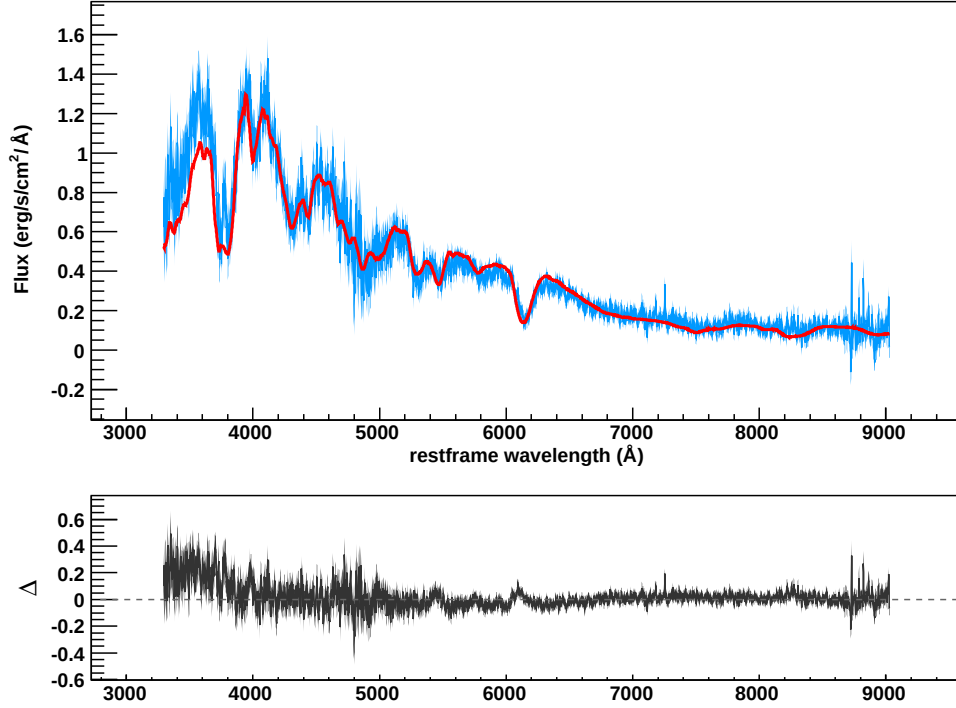
SNF20080323-009__08_094_083_003 spectrum (phase=0.5594) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.728691$

$$\begin{aligned}EW_{Ca} &= 94.9434 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 24.9118559907 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.0761551455153 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 607.594936709 \\ \chi^2_v \text{ without error} &= 0.00298826873841\end{aligned}$$

SNF20080516-022__08_142_087_003

training/SNF20080516-022/SNF20080516-022_P000756_restframe.list

z = 0.0747, phase = 0.7567 jours, color = -0.0754, stretch = 0.9633 (x1 = -0.1845)



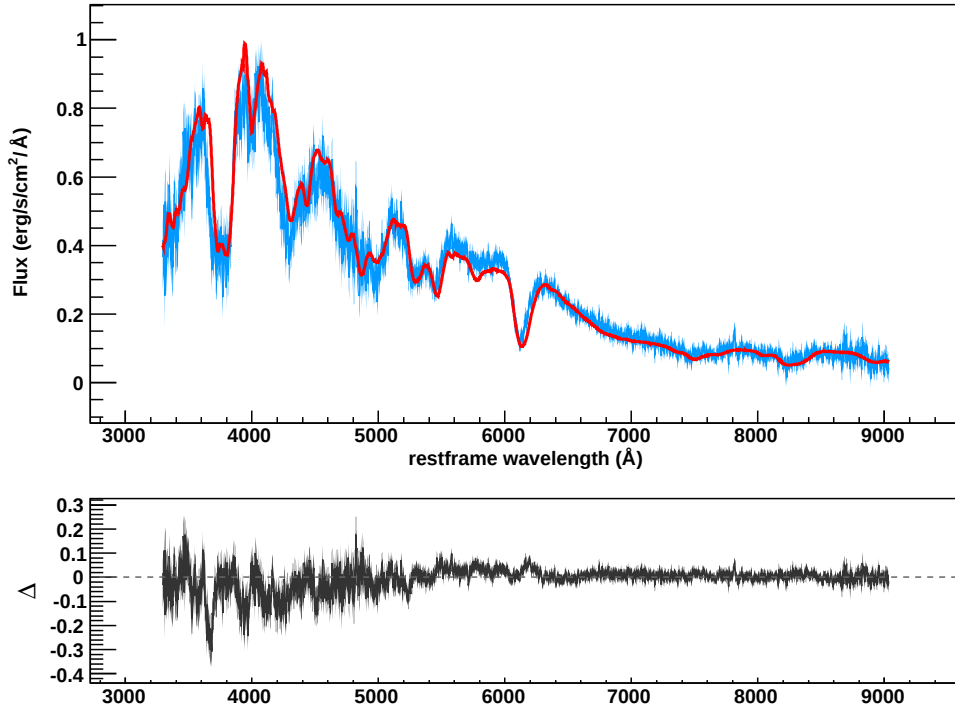
SNF20080516-022__08_142_087_003 spectrum (phase=0.7567) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.08885$

$$\begin{aligned}EW_{Ca} &= 94.6303 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 47.5024227082 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.0535787455404 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 531.64556962 \\ \chi^2_v \text{ without error} &= 0.00760533915265\end{aligned}$$

SNF20080821-000__08_242_056_003

validation/SNF20080821-000/SNF20080821-000_M000094_restframe.list

$z = 0.0731$, phase = -0.0944 jours, color = 0.0815, stretch = 0.9936 ($x1 = 0.1491$)



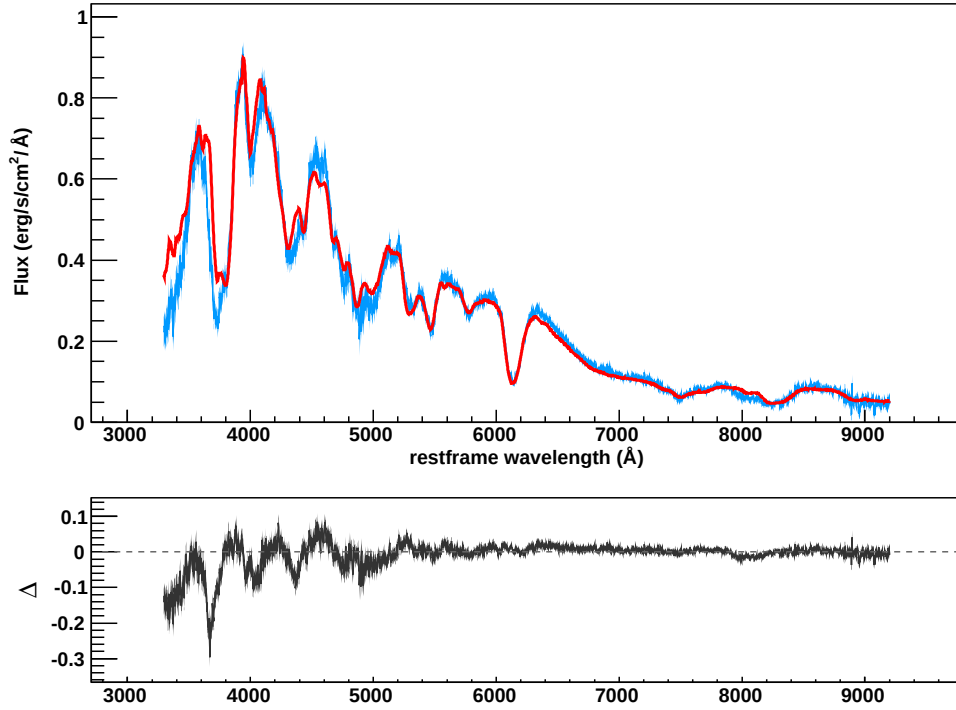
SNF20080821-000__08_242_056_003 spectrum (phase=-0.0944) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.11721$

$$\begin{aligned}EW_{Ca} &= 110.514 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -29.4742592602 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.318579089441 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -607.594936709 \\ \chi^2_v \text{ without error} &= 0.00251465872107\end{aligned}$$

PTF09foz__09_302_048_003

validation/PTF09foz/PTF09foz_P000727_restframe.list

$z = 0.0532$, phase = 0.7272 jours, color = 0.0528, stretch = 0.8595 ($x1 = -1.4135$)



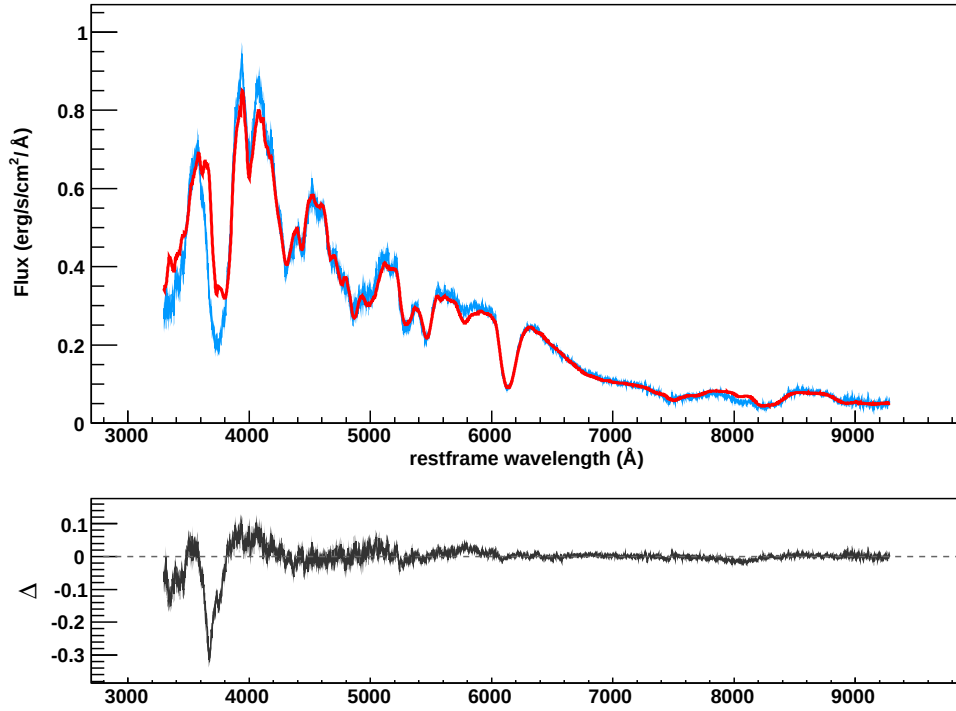
PTF09foz__09_302_048_003 spectrum (phase=0.7272) with PTF11k1y_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_\nu = 3.00417$

$$\begin{aligned}
 EW_{Ca} &= 126.475 \\
 \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -22.1839161386 \\
 F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.296937793358 \\
 V_{obs}^{Ca} - V_{mod}^{Ca} &= -2658.2278481 \\
 \chi^2_\nu \text{ without error} &= 0.0016074034837
 \end{aligned}$$

SNF20080623-001__08_185_077_003

validation/SNF20080623-001/SNF20080623-001_P000444_restframe.list

$z = 0.0448$, phase = 0.4446 jours, color = 0.0153, stretch = 0.9647 (x1 = -0.1695)



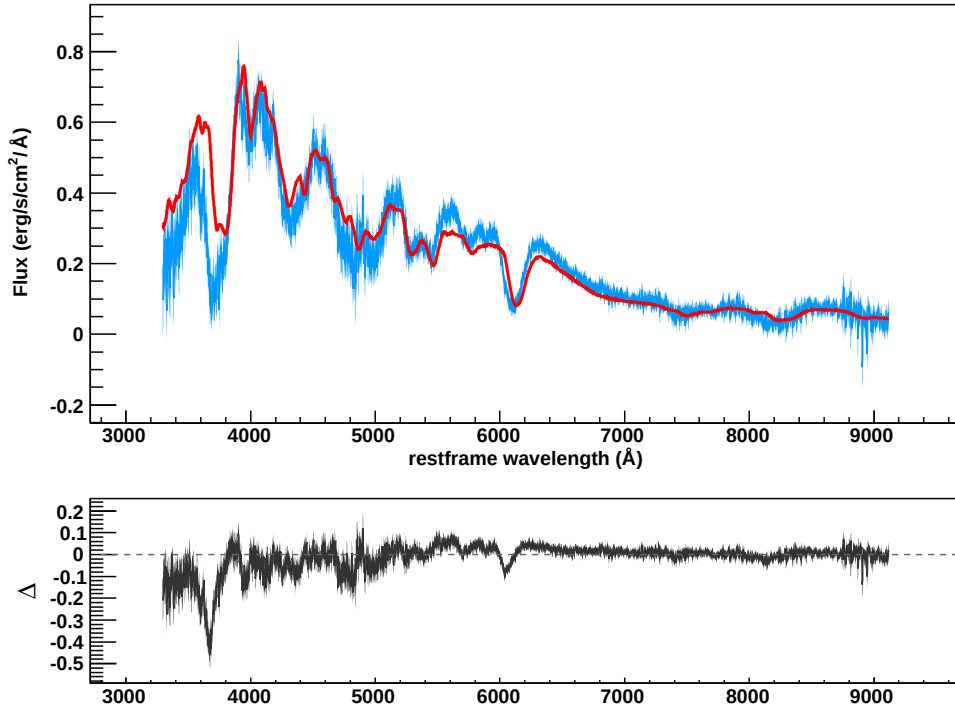
SNF20080623-001__08_185_077_003 spectrum (phase=0.4446) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 3.43236$

$$\begin{aligned}EW_{Ca} &= 149.08 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -22.3407541102 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.313730272116 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2202.53164557 \\ \chi^2_v \text{ without error} &= 0.0015169749807\end{aligned}$$

SNF20070802-000__07_225_046_003

validation/SNF20070802-000/SNF20070802-000_P000604_restframe.list

$z = 0.0643$, phase = 0.6041 jours, color = 0.1373, stretch = 0.9909 ($x1 = 0.1191$)



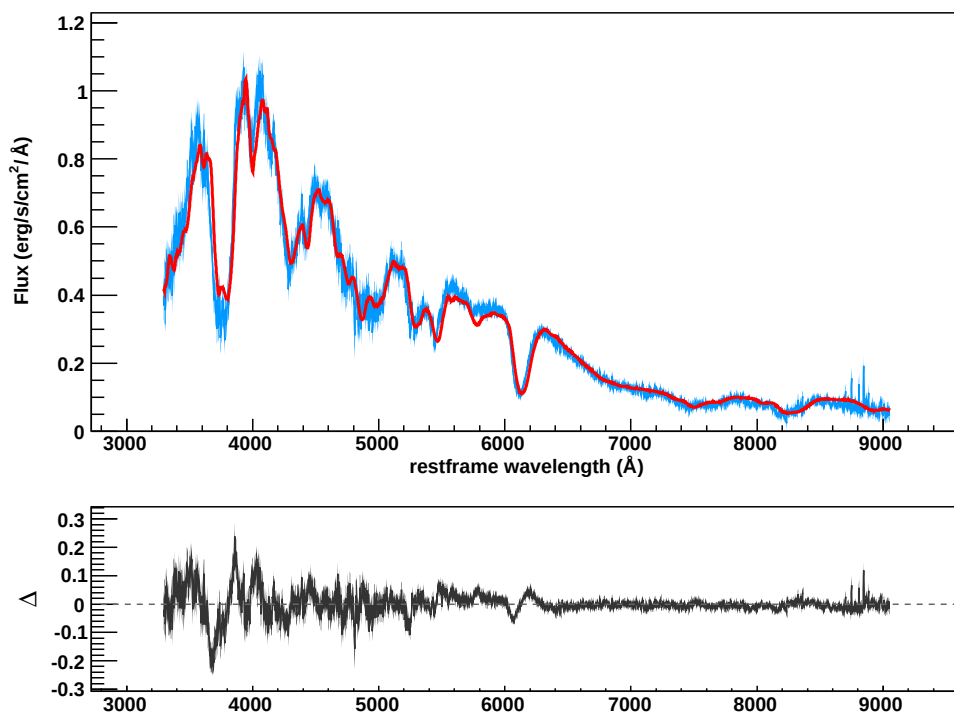
SNF20070802-000__07_225_046_003 spectrum (phase=0.6041) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 2.20301$

$$\begin{aligned}EW_{Ca} &= 156.599 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -51.1670931135 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.46509191521 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3721.51898734 \\ \chi^2_v \text{ without error} &= 0.00450994495445\end{aligned}$$

PTF09fox__09_302_044_003

training/PTF09fox/PTF09fox_P000140_restframe.list

$z = 0.0706$, phase = 0.1409 jours, color = -0.0064, stretch = 1.0099 ($x1 = 0.3256$)



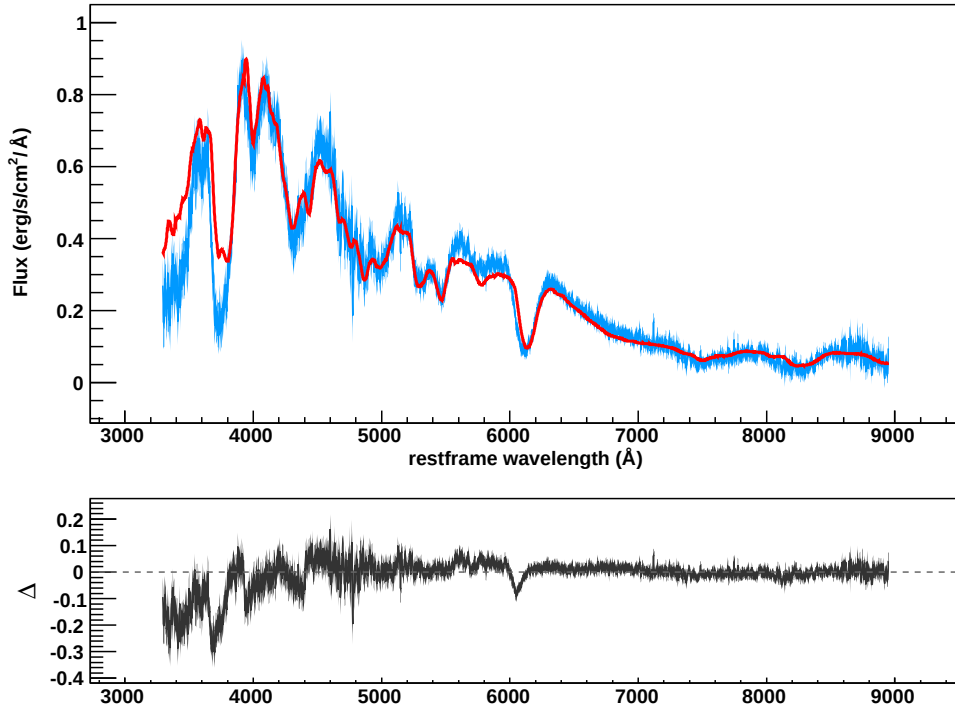
PTF09fox__09_302_044_003 spectrum (phase=0.1409) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.58003$

$$\begin{aligned}
 EW_{Ca} &= 120.302 \\
 \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -8.58635123143 \\
 F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.208808870472 \\
 V_{obs}^{Ca} - V_{mod}^{Ca} &= -911.392405063 \\
 \chi^2_v \text{ without error} &= 0.00161285454223
 \end{aligned}$$

SNF20070810-004__07_233_080_003

validation/SNF20070810-004/SNF20070810-004_P002157_restframe.list

z = 0.0827, phase = 2.1572 jours, color = 0.0564, stretch = 0.9516 (x1 = -0.316)



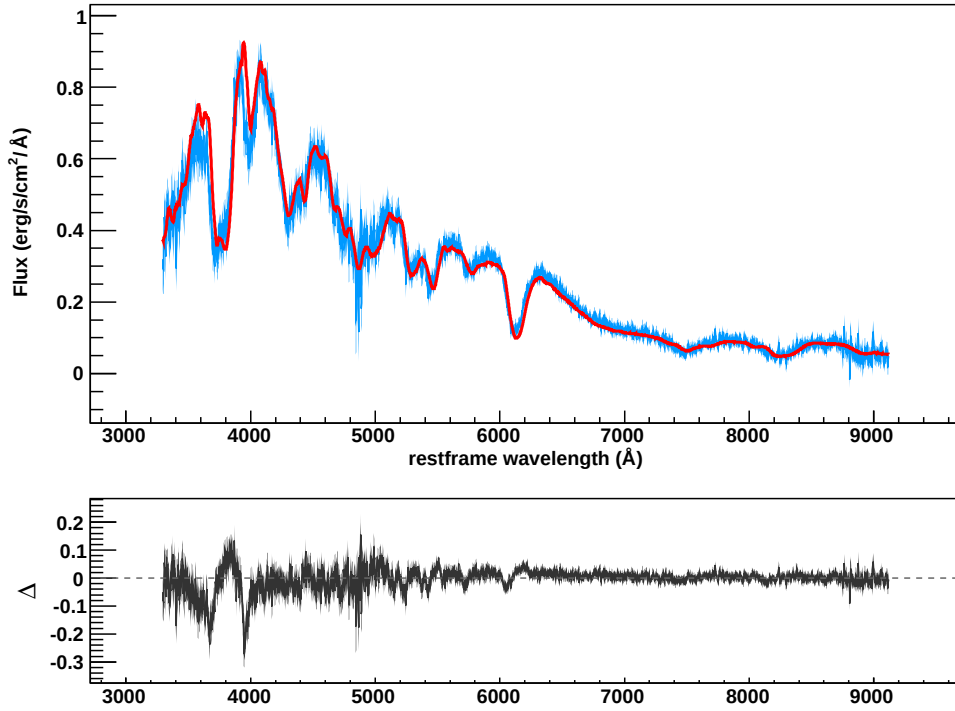
SNF20070810-004__07_233_080_003 spectrum (phase=2.1572) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.65252$

$$\begin{aligned}EW_{Ca} &= 131.395 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -38.8574277473 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.302913303294 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2354.43037975 \\ \chi^2_v \text{ without error} &= 0.00350120287837\end{aligned}$$

SNF20080512-010__08_137_066_003

training/SNF20080512-010/SNF20080512-010_P000245_restframe.list

z = 0.0639, phase = 0.2455 jours, color = 0.0622, stretch = 0.845 (x1 = -1.6022)



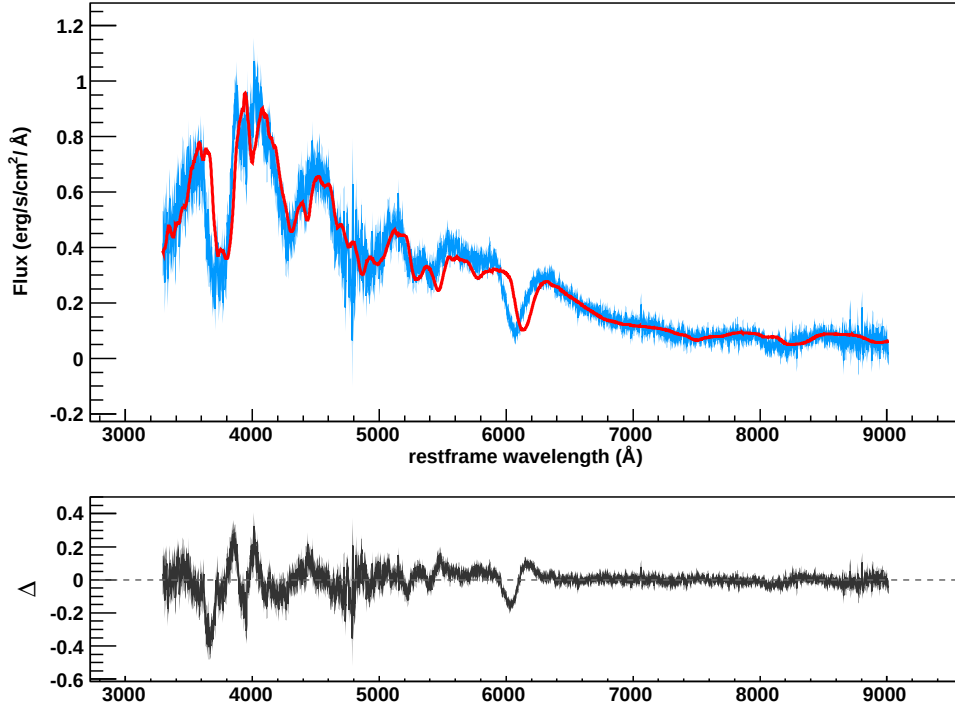
SNF20080512-010__08_137_066_003 spectrum (phase=0.2455) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.0983$

$$\begin{aligned}EW_{Ca} &= 98.0468 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -18.2987390908 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.237642183637 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2430.37974684 \\ \chi^2_v \text{ without error} &= 0.00152787694619\end{aligned}$$

SN2005ir__05_314_070_001

validation/SN2005ir/SN2005ir_M000161_restframe.list

$z = 0.0752$, phase = -0.161 jours, color = 0.103, stretch = 1.212 (x1 = 2.4726)



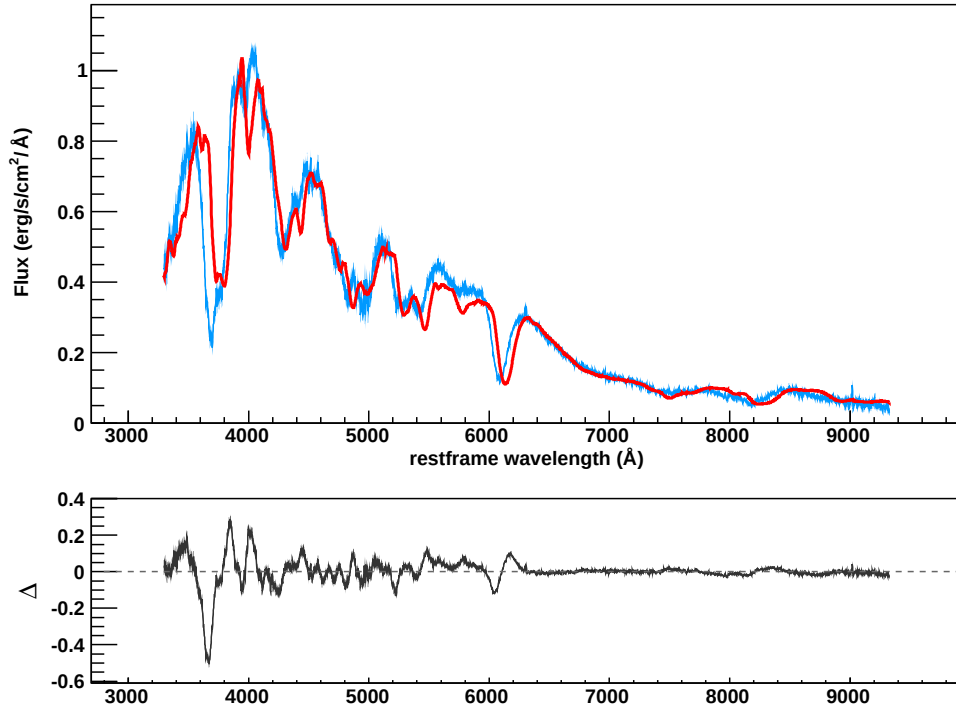
SN2005ir__05_314_070_001 spectrum (phase=-0.161) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.74836$

$$\begin{aligned}EW_{Ca} &= 115.69 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -25.2650682659 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.419505730666 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -683.544303797 \\ \chi^2_v \text{ without error} &= 0.00491537588587\end{aligned}$$

SNF20080920-000__08_269_084_003

training/SNF20080920-000/SNF20080920-000_M001233_restframe.list

z = 0.039, phase = -1.2333 jours, color = 0.0602, stretch = 1.0277 (x1 = 0.5167)



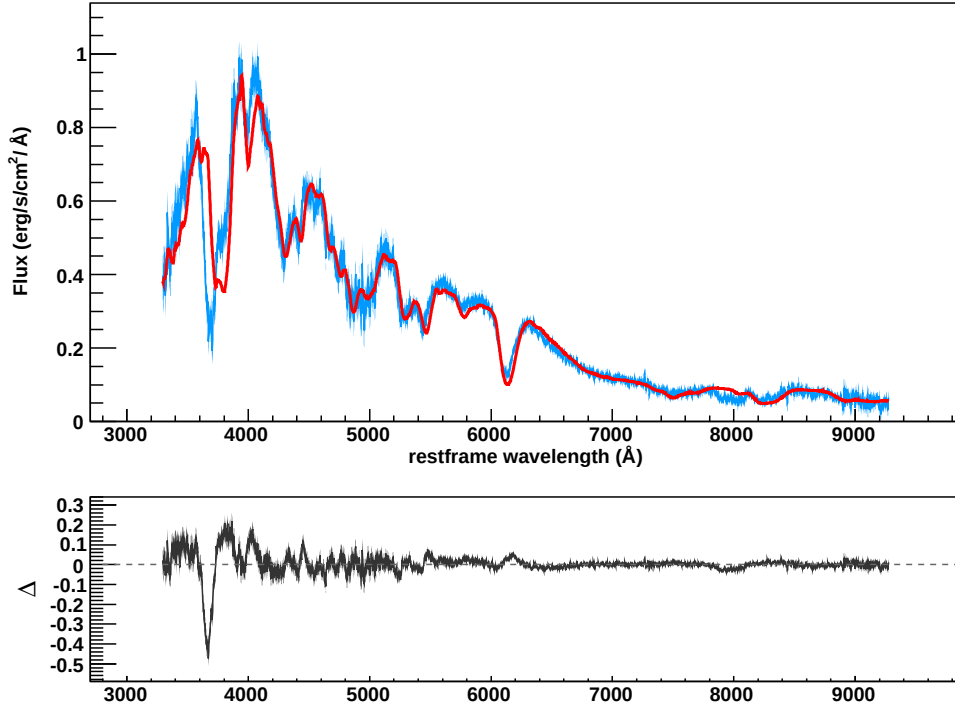
SNF20080920-000__08_269_084_003 spectrum (phase=-1.2333) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 13.2787$

$$\begin{aligned}EW_{Ca} &= 136.606 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -26.3079287179 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.501802984978 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -6607.59493671 \\ \chi^2_v \text{ without error} &= 0.0050376693274\end{aligned}$$

SN2005hc__05_296_062_001

training/SN2005hc/SN2005hc_M000451_restframe.list

$z = 0.0449$, phase = -0.4511 jours, color = 0.0422, stretch = 1.0706 ($x1 = 0.9722$)



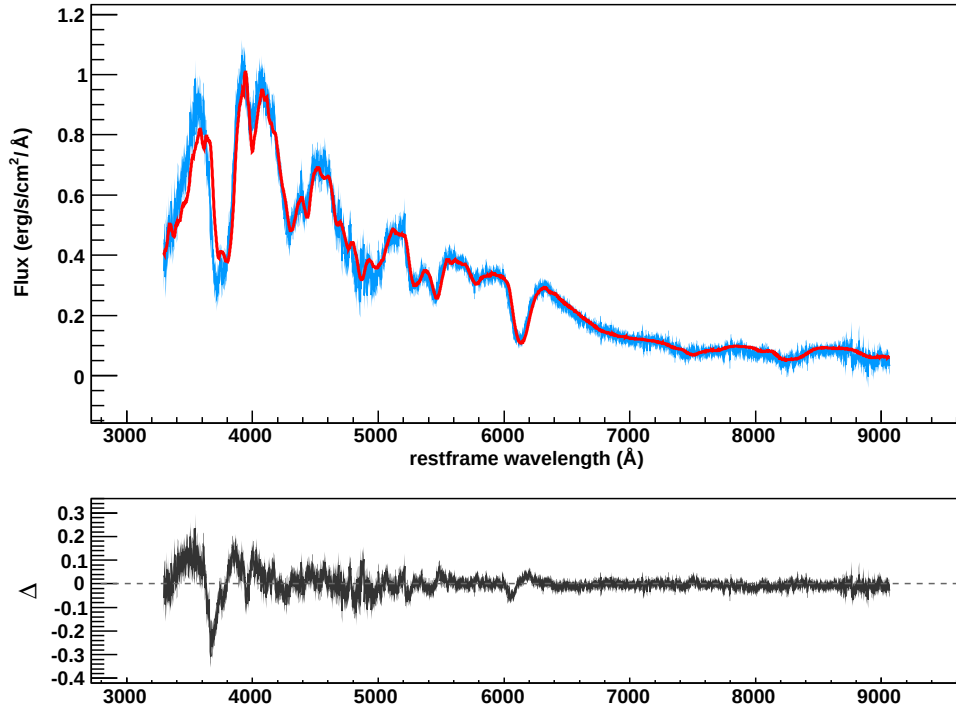
SN2005hc__05_296_062_001 spectrum (phase=-0.4511) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 2.85491$

$$\begin{aligned}EW_{Ca} &= 125.922 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -7.0805900212 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.477238244859 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -6683.5443038 \\ \chi^2_v \text{ without error} &= 0.00306601921112\end{aligned}$$

SNF20060919-007__06_264_074_003

validation/SNF20060919-007/SNF20060919-007_M000060_restframe.list

z = 0.0694, phase = -0.0608 jours, color = -0.0162, stretch = 0.9595 (x1 = -0.2268)



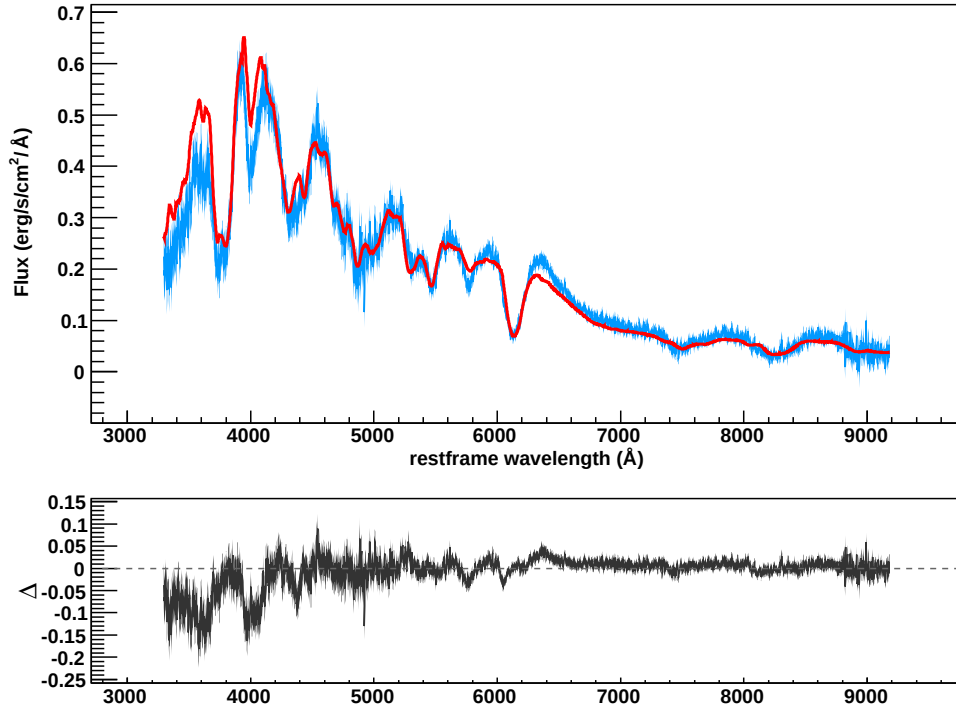
SNF20060919-007__06_264_074_003 spectrum (phase=-0.0608) with PTF11kl_y_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.08799$

$$\begin{aligned}EW_{Ca} &= 127.922 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -5.22386134615 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.307630220659 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2202.53164557 \\ \chi^2_v \text{ without error} &= 0.00186129659446\end{aligned}$$

SNF20061024-000__06_304_067_003

training/SNF20061024-000/SNF20061024-000_P000184_restframe.list

z = 0.0557, phase = 0.185 jours, color = 0.0699, stretch = 0.8212 (x1 = -1.9256)



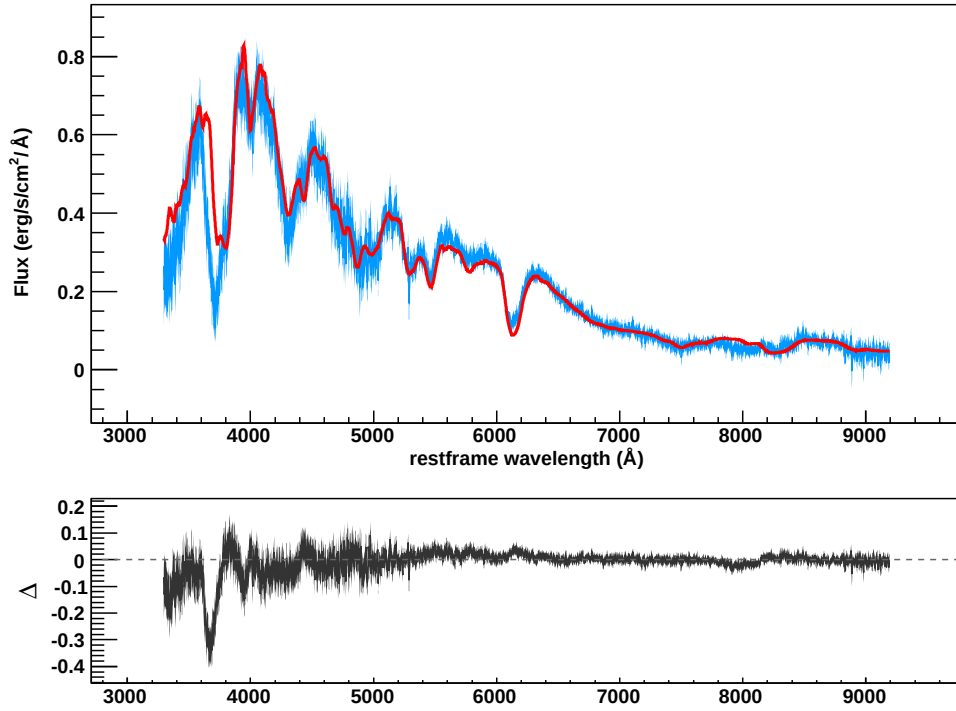
SNF20061024-000__06_304_067_003 spectrum (phase=0.185) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.95987$

$$\begin{aligned}EW_{Ca} &= 107.841 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -24.0532928894 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.181448950481 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1367.08860759 \\ \chi^2_v \text{ without error} &= 0.00132300104042\end{aligned}$$

SNF20080725-004__08_214_072_003

training/SNF20080725-004/SNF20080725-004_P000732_restframe.list

z = 0.0541, phase = 0.7329 jours, color = 0.0785, stretch = 1.0224 (x1 = 0.4593)



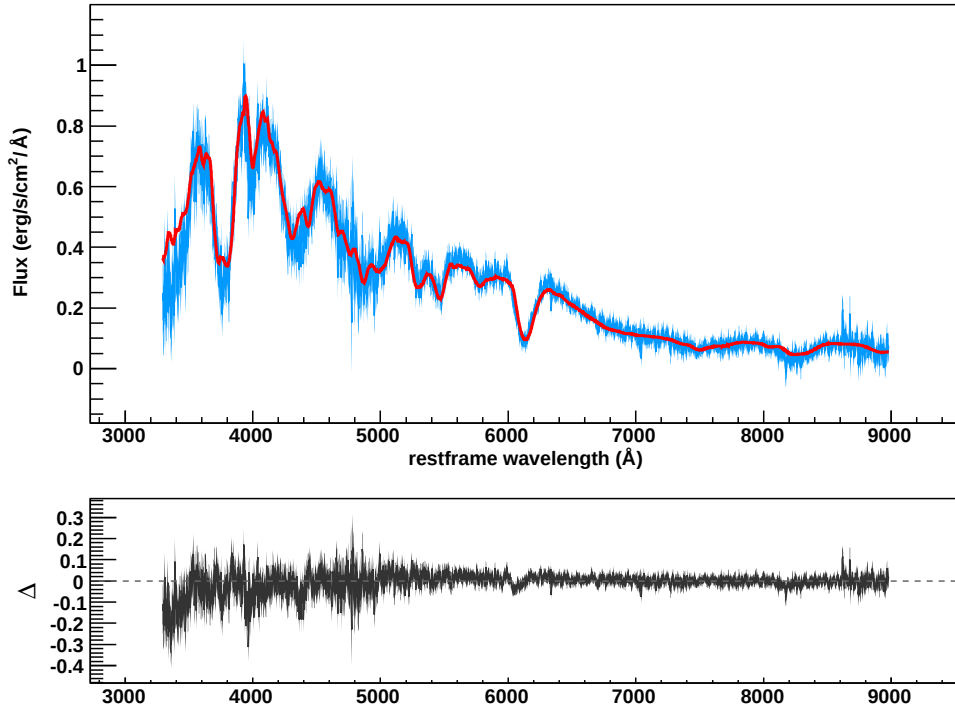
SNF20080725-004__08_214_072_003 spectrum (phase=0.7329) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.03818$

$$\begin{aligned}EW_{Ca} &= 134.016 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -34.6372855305 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.340627325321 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3797.46835443 \\ \chi^2_v \text{ without error} &= 0.00241833828986\end{aligned}$$

SNF20070403-001__07_100_066_003

validation/SNF20070403-001/SNF20070403-001_P000106_restframe.list

$z = 0.0815$, phase = 0.1066 jours, color = 0.0667, stretch = 0.8741 ($x1 = -1.2287$)



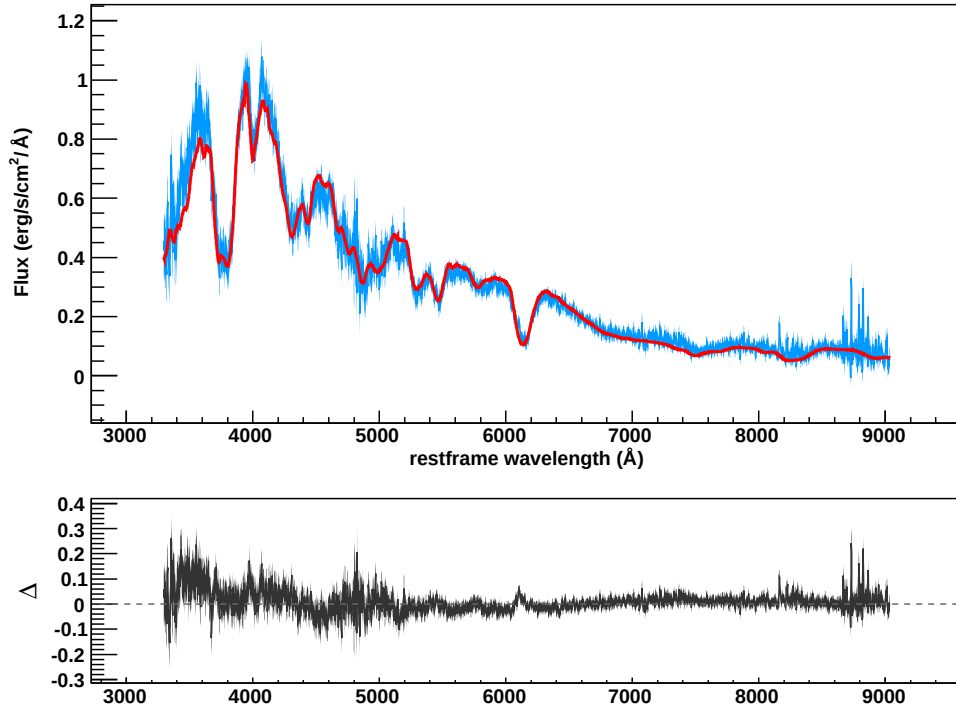
SNF20070403-001__07_100_066_003 spectrum (phase=0.1066) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.645362$

$$\begin{aligned} EW_{Ca} &= 106.984 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -14.8101338374 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.186936547811 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 379.746835443 \\ \chi^2_v \text{ without error} &= 0.00228312550264 \end{aligned}$$

SNF20070712-003__07_198_059_003

training/SNF20070712-003/SNF20070712-003_M002091_restframe.list

z = 0.0738, phase = -2.092 jours, color = -0.0501, stretch = 0.9643 (x1 = -0.173)



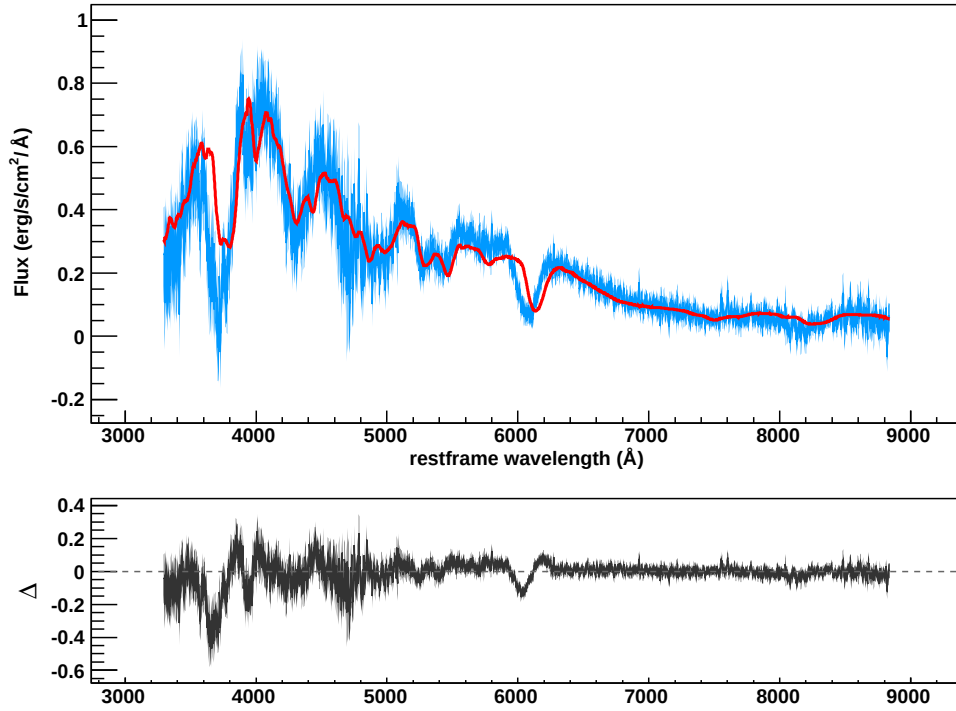
SNF20070712-003__07_198_059_003 spectrum (phase=-2.092) with PTF11kly_11_254_039_003 fit (phase=0.140741706634) with $\chi^2_v = 0.922534$

$$\begin{aligned} EW_{Ca} &= 109.526 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 13.4313470352 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.135311268948 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 531.64556962 \\ \chi^2_v \text{ without error} &= 0.00172337714815 \end{aligned}$$

SNF20080707-012__08_194_074_003

training/SNF20080707-012/SNF20080707-012_M000852_restframe.list

$z = 0.0963$, phase = -0.8527 jours, color = 0.0186, stretch = 0.9217 ($x1 = -0.6573$)



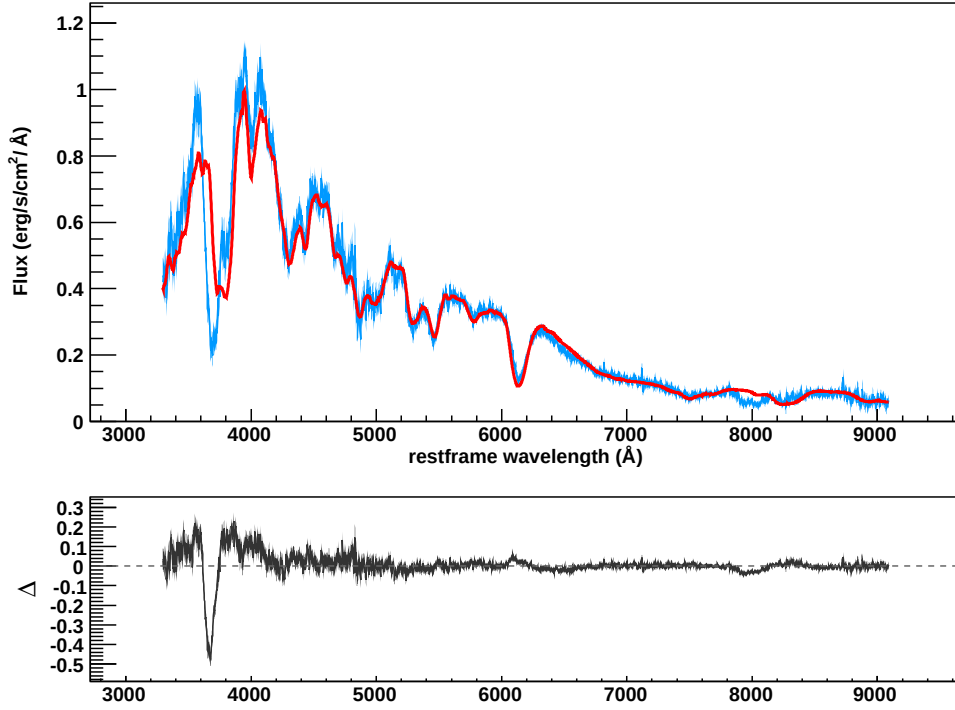
SNF20080707-012__08_194_074_003 spectrum (phase=-0.8527) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.10315$

$$\begin{aligned}EW_{Ca} &= 148.936 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -41.8827468287 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.469581200546 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3569.62025316 \\ \chi^2_v \text{ without error} &= 0.00583546722834\end{aligned}$$

PTF09dlc__09_243_054_003

validation/PTF09dlc/PTF09dlc_M000775_restframe.list

$z = 0.0663$, phase = -0.7756 jours, color = -0.0066, stretch = 0.9708 ($x1 = -0.1015$)



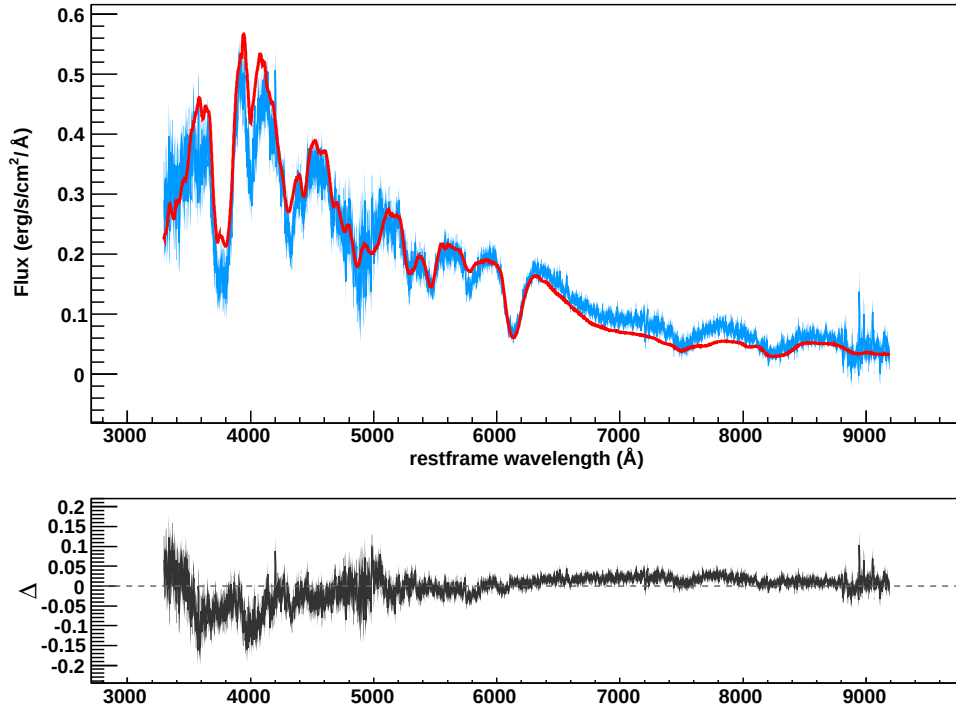
PTF09dlc__09_243_054_003 spectrum (phase=-0.7756) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 3.47435$

$$\begin{aligned}EW_{Ca} &= 143.43 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -2.50035611871 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.475271694935 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -6075.94936709 \\ \chi^2_v \text{ without error} &= 0.003800552939\end{aligned}$$

SNF20080919-002__08_269_086_003

training/SNF20080919-002/SNF20080919-002_M002063_restframe.list

z = 0.0547, phase = -2.0633 jours, color = 0.1167, stretch = 0.8105 (x1 = -2.0786)



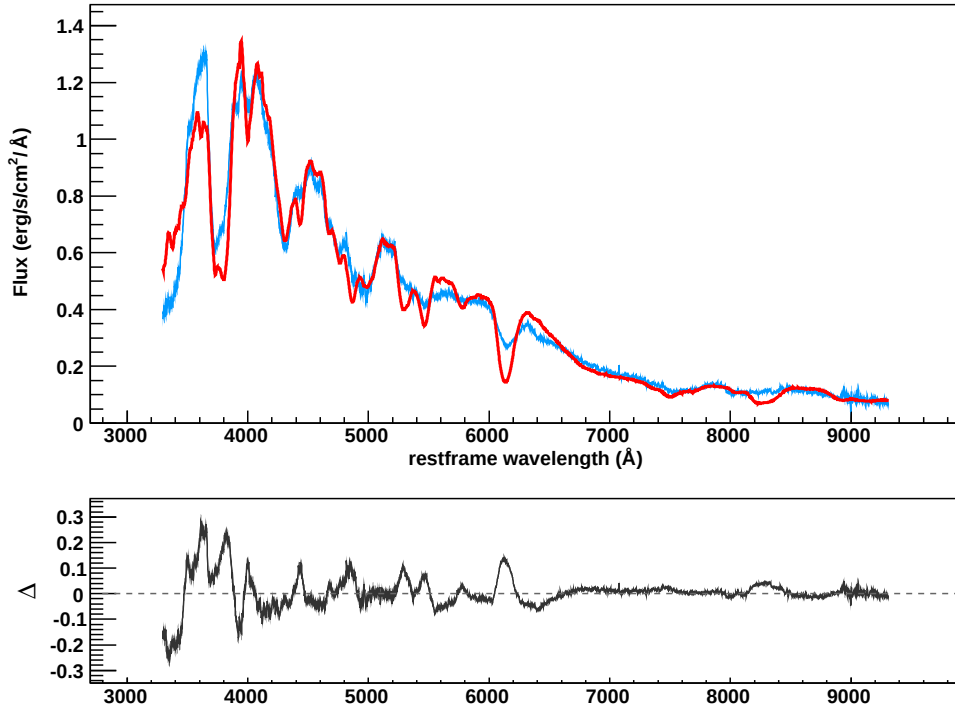
SNF20080919-002__08_269_086_003 spectrum (phase=-2.0633) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 2.2909$

$$\begin{aligned}EW_{Ca} &= 105.957 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -25.6004239324 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.16555591343 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -683.544303797 \\ \chi^2_v \text{ without error} &= 0.00116502125423\end{aligned}$$

SNF20080919-001__08_272_068_003

validation/SNF20080919-001/SNF20080919-001_M000180_restframe.list

z = 0.0409, phase = -0.1808 jours, color = 0.0556, stretch = 1.0069 (x1 = 0.2931)



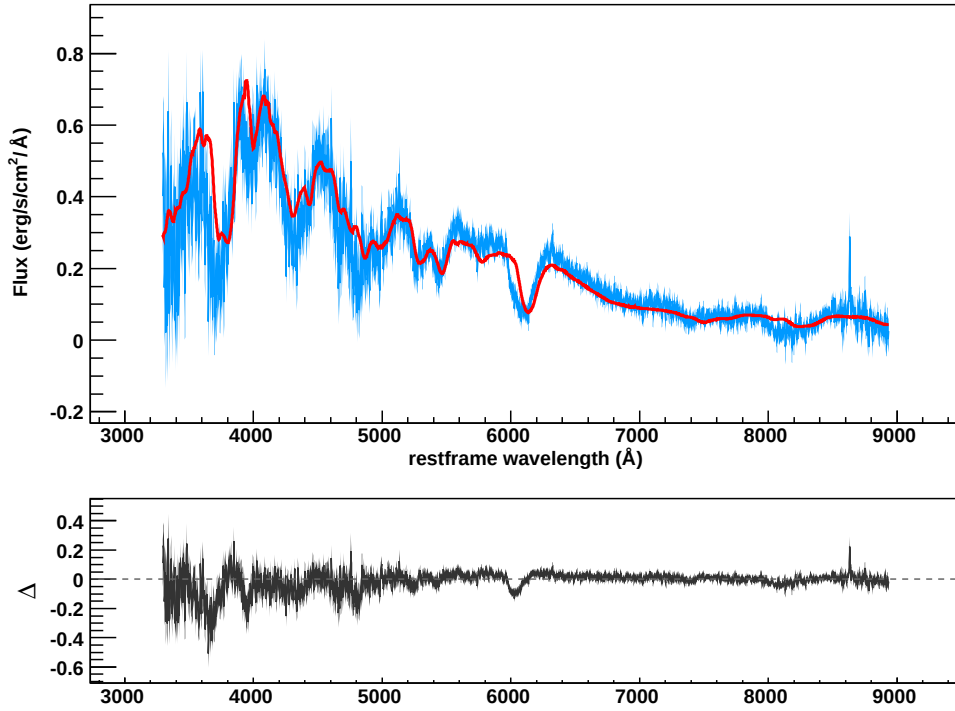
SNF20080919-001__08_272_068_003 spectrum (phase=-0.1808) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 17.2971$

$$\begin{aligned}EW_{Ca} &= 81.399 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 36.3340045468 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= 0.0359131512781 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1974.6835443 \\ \chi^2_v \text{ without error} &= 0.003982695899\end{aligned}$$

SNF20080714-008__08_203_063_003

validation/SNF20080714-008/SNF20080714-008_P000144_restframe.list

z = 0.0846, phase = 0.1442 jours, color = 0.1398, stretch = 0.9369 (x1 = -0.482)



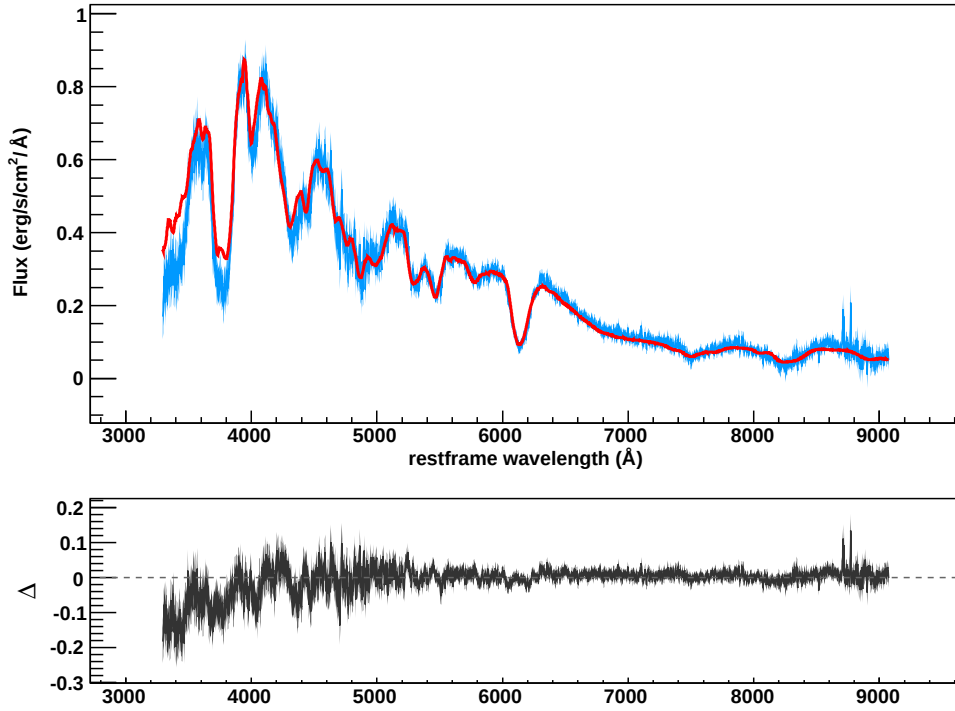
SNF20080714-008__08_203_063_003 spectrum (phase=0.1442) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.29843$

$$\begin{aligned}EW_{Ca} &= 121.375 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -37.9825441298 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.509140792481 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3645.56962025 \\ \chi^2_v \text{ without error} &= 0.00489434638744\end{aligned}$$

SNF20061111-002__06_324_039_003

training/SNF20061111-002/SNF20061111-002_P000161_restframe.list

$z = 0.0682$, phase = 0.1614 jours, color = 0.05, stretch = 1.0035 (x1 = 0.2558)



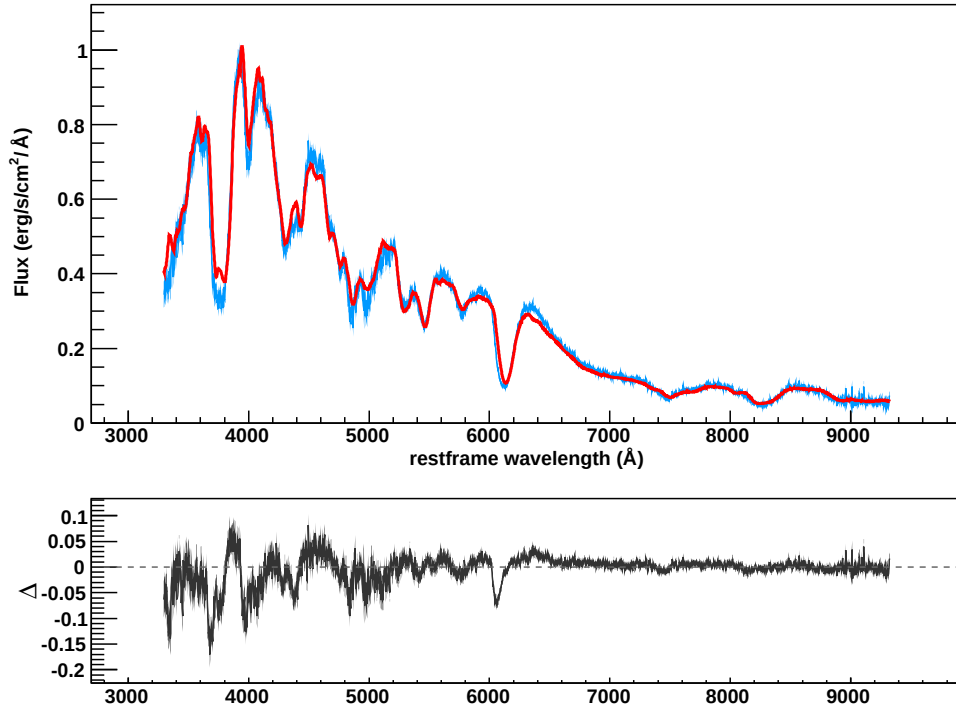
SNF20061111-002__06_324_039_003 spectrum (phase=0.1614) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.982799$

$$\begin{aligned} EW_{Ca} &= 123.793 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -23.257592976 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.156151180904 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -531.64556962 \\ \chi^2_v \text{ without error} &= 0.00154321948352 \end{aligned}$$

SNF20080825-010__08_249_088_003

training/SNF20080825-010/SNF20080825-010_P000761_restframe.list

$z = 0.0396$, phase = 0.7613 jours, color = 0.0496, stretch = 0.8791 ($x1 = -1.1673$)



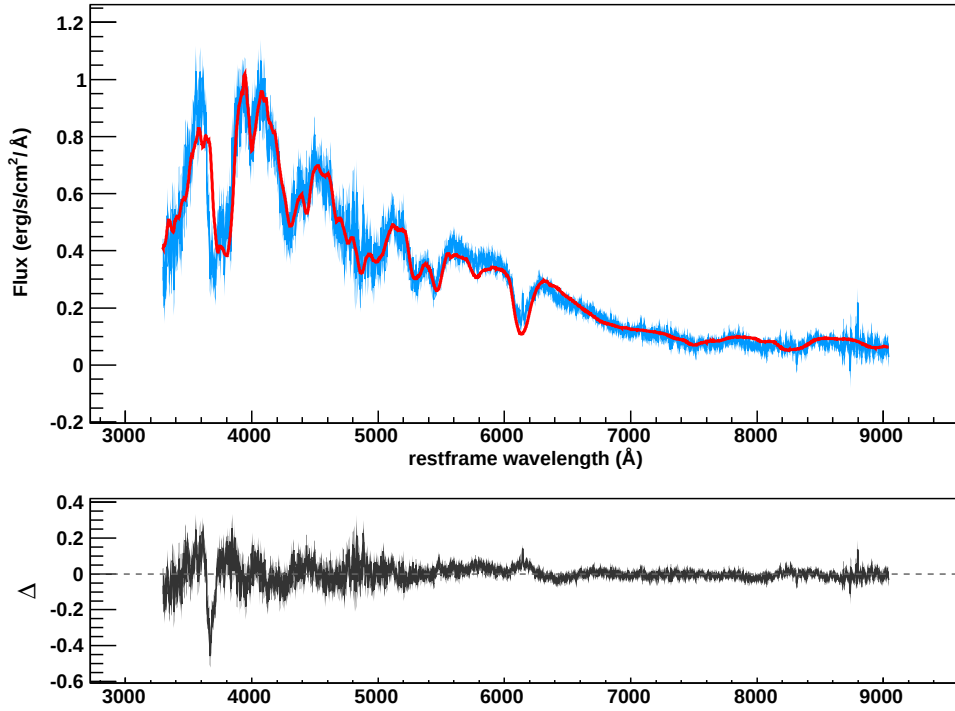
SNF20080825-010__08_249_088_003 spectrum (phase=0.7613) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_{\nu} = 2.94083$

$$\begin{aligned}EW_{Ca} &= 111.385 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -14.5991650243 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.17092042144 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1367.08860759 \\ \chi^2_{\nu} \text{ without error} &= 0.000800676865487\end{aligned}$$

SNF20080516-000__08_142_064_003

validation/SNF20080516-000/SNF20080516-000_P001163_restframe.list

z = 0.0736, phase = 1.1631 jours, color = 0.008, stretch = 1.0784 (x1 = 1.0539)



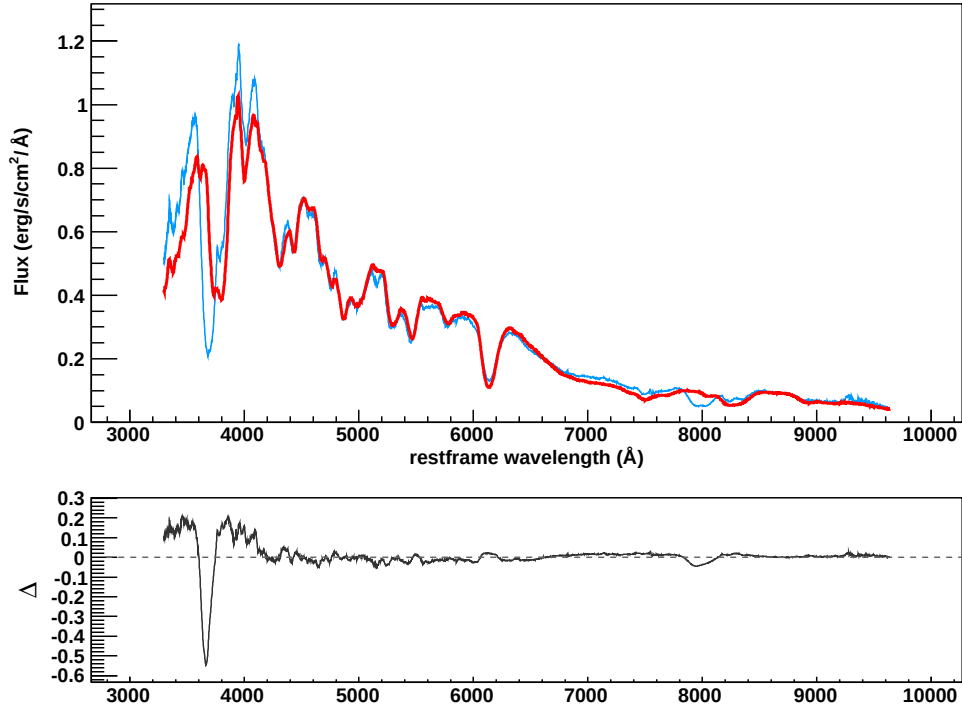
SNF20080516-000__08_142_064_003 spectrum (phase=1.1631) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.19675$

$$\begin{aligned}EW_{Ca} &= 125.063 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -6.0113032473 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.457337583778 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3721.51898734 \\ \chi^2_v \text{ without error} &= 0.00311103968063\end{aligned}$$

SN2005cf__05_161_041_001

training/SN2005cf/SN2005cf_M002427_restframe.list

$z = 0.0074$, phase = -2.4279 jours, color = 0.0667, stretch = 0.946 ($x1 = -0.3784$)



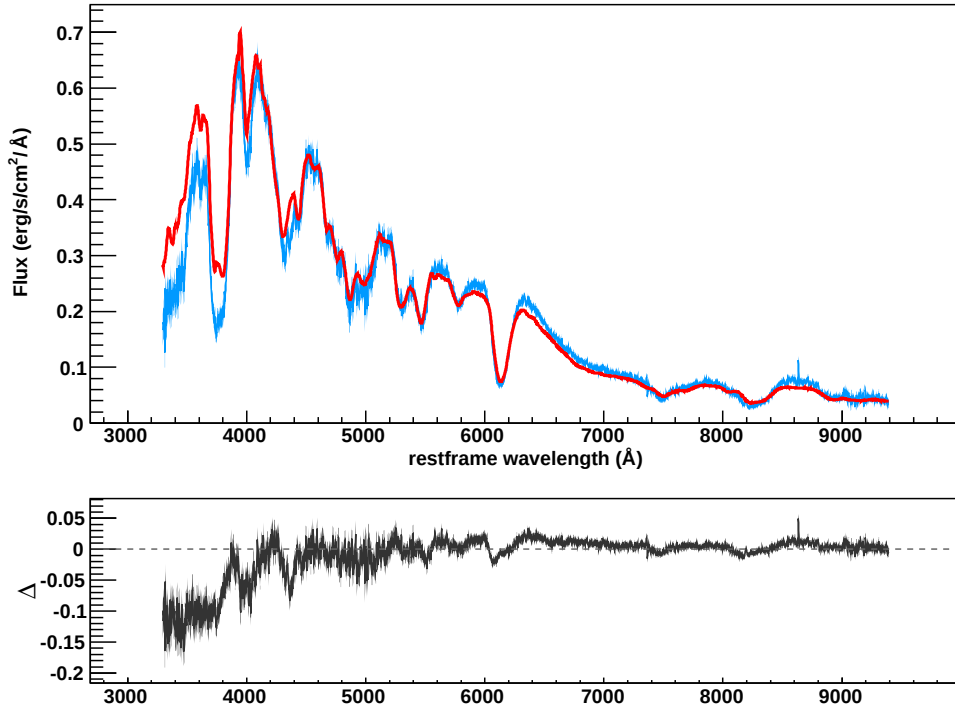
SN2005cf__05_161_041_001 spectrum (phase=-2.4279) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 166.148$

$$\begin{aligned}
 EW_{Ca} &= 153.066 \\
 \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -7.94833269432 \\
 F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.548349702695 \\
 V_{obs}^{Ca} - V_{mod}^{Ca} &= -6759.49367089 \\
 \chi^2_v \text{ without error} &= 0.00504659417025
 \end{aligned}$$

SNF20080620-000__08_177_061_003

validation/SNF20080620-000/SNF20080620-000_P001066_restframe.list

$z = 0.0333$, phase = 1.0665 jours, color = 0.1176, stretch = 0.8898 (x1 = -1.0353)



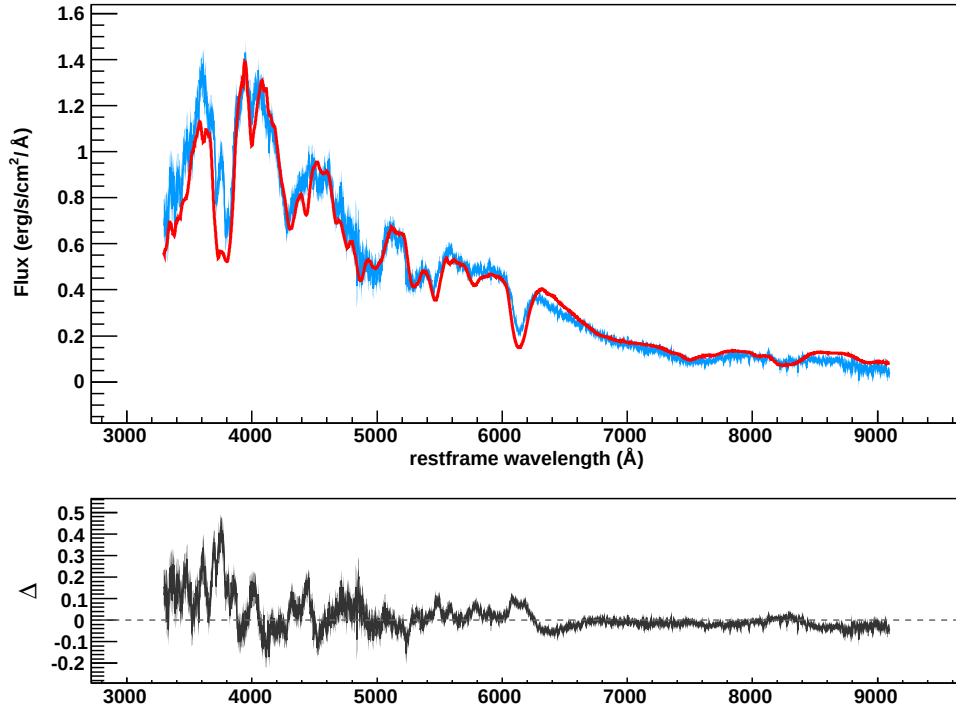
SNF20080620-000__08_177_061_003 spectrum (phase=1.0665) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 4.5312$

$$\begin{aligned}EW_{Ca} &= 113.666 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -28.9611044606 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.130493926877 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1215.18987342 \\ \chi^2_v \text{ without error} &= 0.00128986980515\end{aligned}$$

SNF20070727-016__07_213_046_003

training/SNF20070727-016/SNF20070727-016_P001079_restframe.list

z = 0.0665, phase = 1.0794 jours, color = -0.0328, stretch = 0.9954 (x1 = 0.1684)



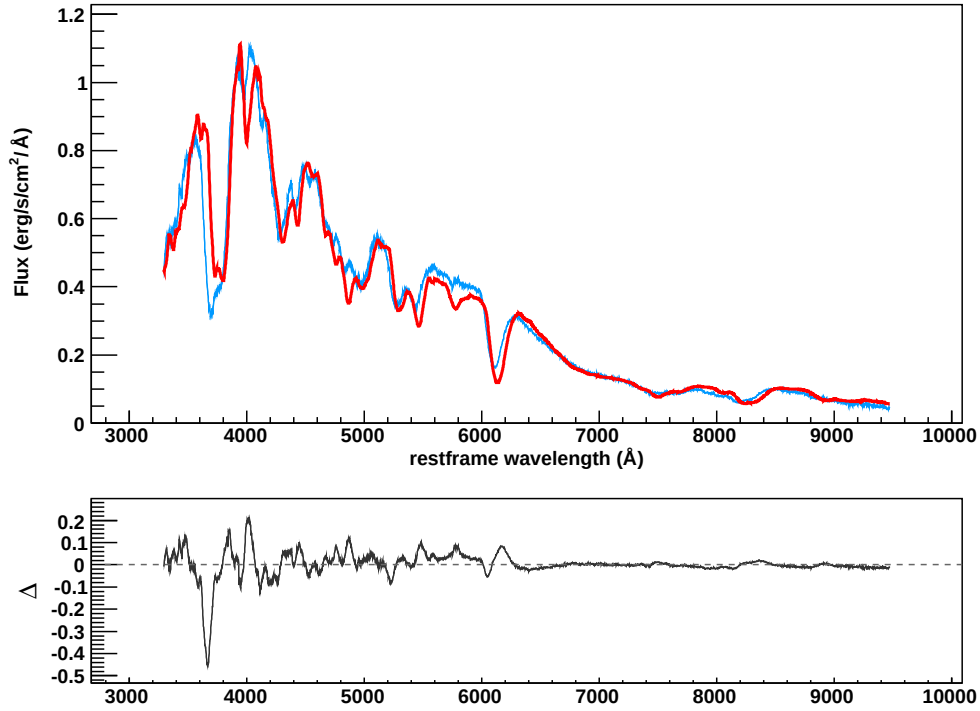
SNF20070727-016__07_213_046_003 spectrum (phase=1.0794) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_\nu = 3.88888$

$$\begin{aligned}EW_{Ca} &= 74.6864 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 57.3167254084 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.0525375077848 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 2506.32911392 \\ \chi^2_\nu \text{ without error} &= 0.00563907354505\end{aligned}$$

SNF20080626-002__08_185_084_003

training/SNF20080626-002/SNF20080626-002_M000292_restframe.list

z = 0.0232, phase = -0.2921 jours, color = 0.0225, stretch = 1.0641 (x1 = 0.9031)



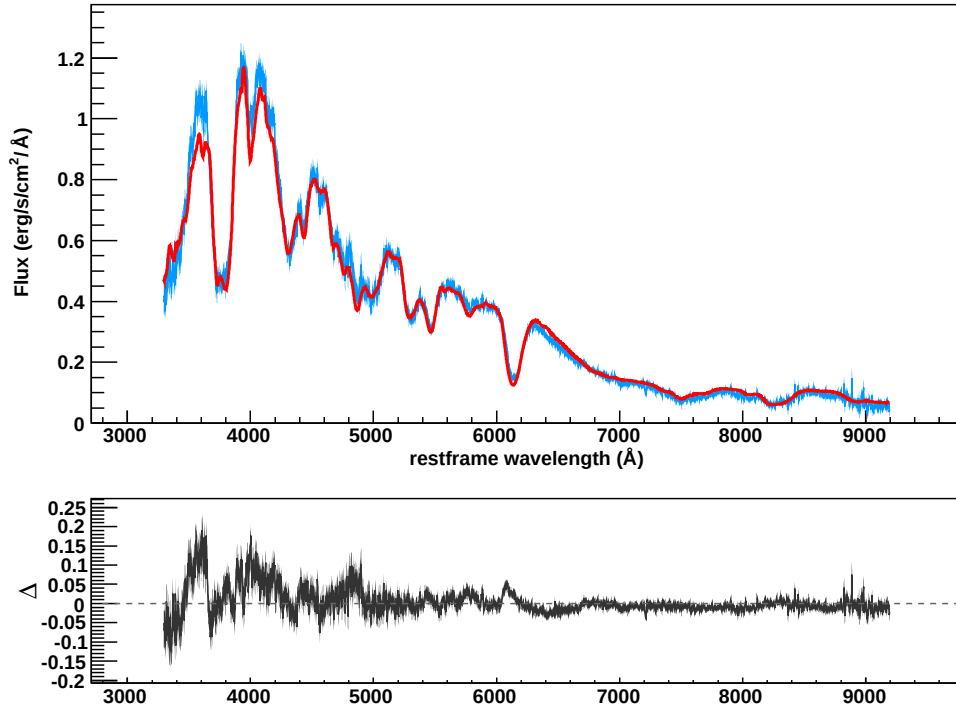
SNF20080626-002__08_185_084_003 spectrum (phase=-0.2921) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 37.352$

$$\begin{aligned}EW_{Ca} &= 131.755 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -28.6637685289 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.451442286225 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3645.56962025 \\ \chi^2_v \text{ without error} &= 0.00332460270339\end{aligned}$$

SNF20060621-015__06_181_084_003

training/SNF20060621-015/SNF20060621-015_P001240_restframe.list

z = 0.0541, phase = 1.2406 jours, color = -0.0423, stretch = 1.0184 (x1 = 0.4172)



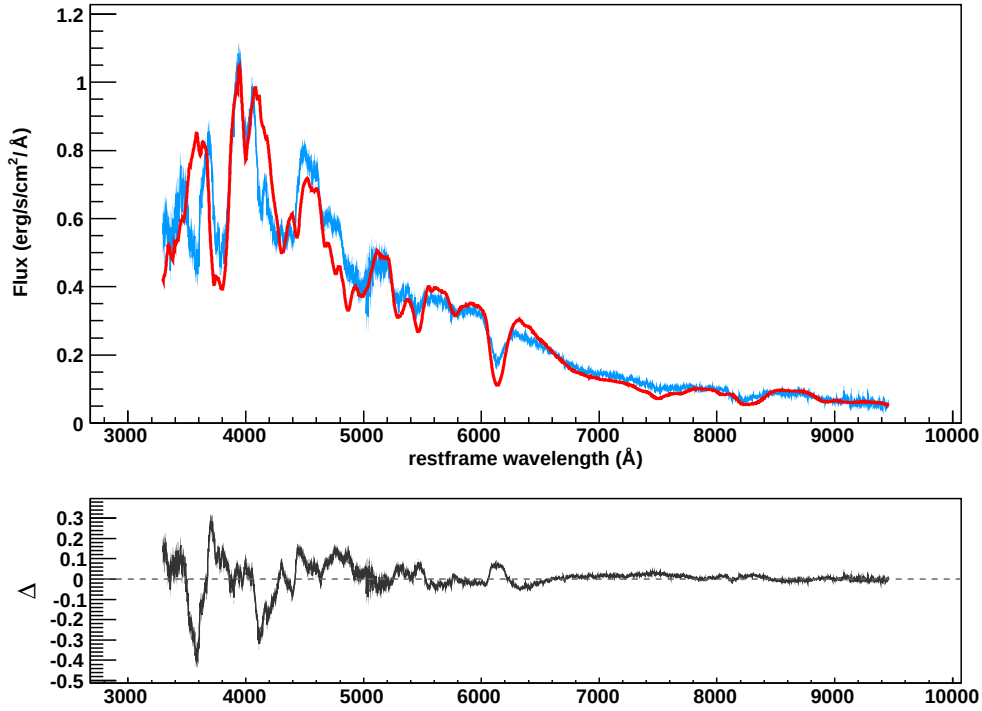
SNF20060621-015__06_181_084_003 spectrum (phase=1.2406) with PTF11kly_11_254_039_003 fit (phase=0.140741706634) with $\chi^2_v = 1.9796$

$$\begin{aligned}EW_{Ca} &= 112.107 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 14.2747811017 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.0877959188427 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1746.83544304 \\ \chi^2_v \text{ without error} &= 0.00119936513085\end{aligned}$$

SN2007cq__07_178_090_003

validation/SN2007cq/SN2007cq_M002251_restframe.list

$z = 0.0246$, phase = -2.2511 jours, color = 0.0048, stretch = 0.9159 ($x1 = -0.7246$)



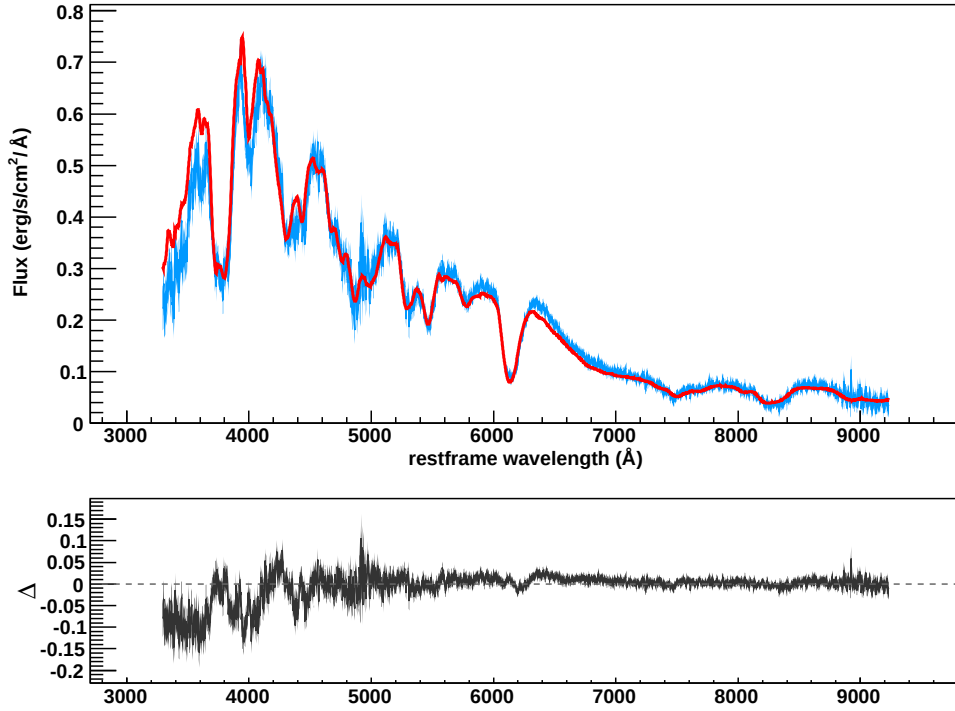
SN2007cq__07_178_090_003 spectrum (phase=-2.2511) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 9.10845$

$$\begin{aligned}
 EW_{Ca} &= 63.2792 \\
 \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 17.6683130745 \\
 F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.406368958432 \\
 V_{obs}^{Ca} - V_{mod}^{Ca} &= 1822.78481013 \\
 \chi^2_v \text{ without error} &= 0.0046874156332
 \end{aligned}$$

SNF20080918-004__08_269_076_003

validation/SNF20080918-004/SNF20080918-004_M000020_restframe.list

z = 0.0499, phase = -0.0204 jours, color = -0.0214, stretch = 0.8282 (x1 = -1.8282)



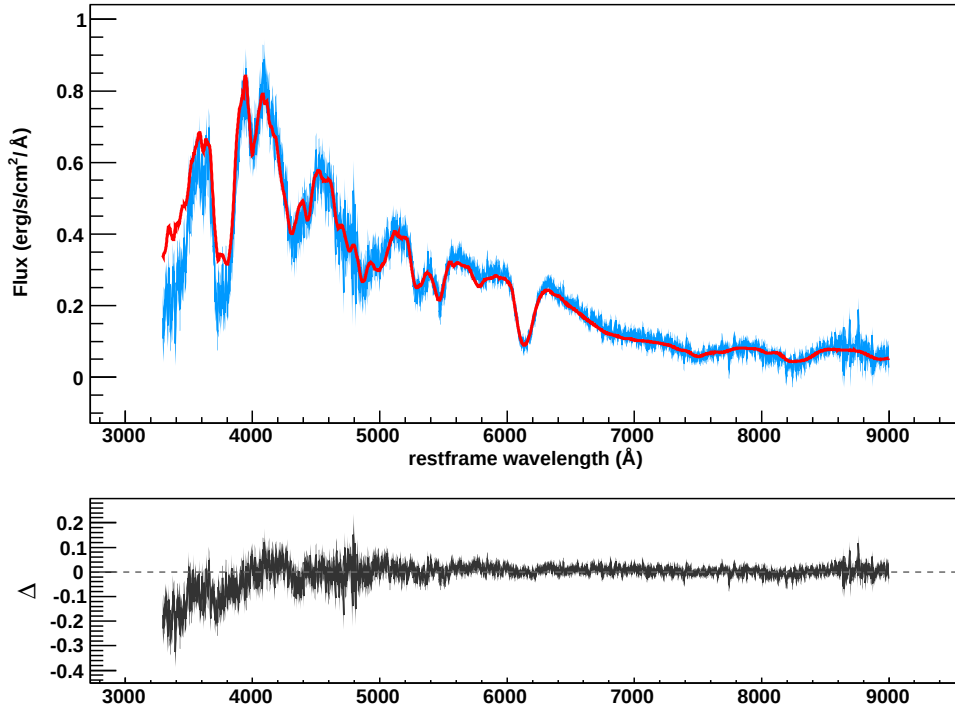
SNF20080918-004__08_269_076_003 spectrum (phase=-0.0204) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.67717$

$$\begin{aligned}EW_{Ca} &= 88.3791 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -20.2717774232 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.159112899482 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 987.341772152 \\ \chi^2_v \text{ without error} &= 0.00109603274815\end{aligned}$$

SNF20080610-000__08_169_055_003

validation/SNF20080610-000/SNF20080610-000_P001156_restframe.list

z = 0.0789, phase = 1.1564 jours, color = 0.0498, stretch = 1.0023 (x1 = 0.2436)



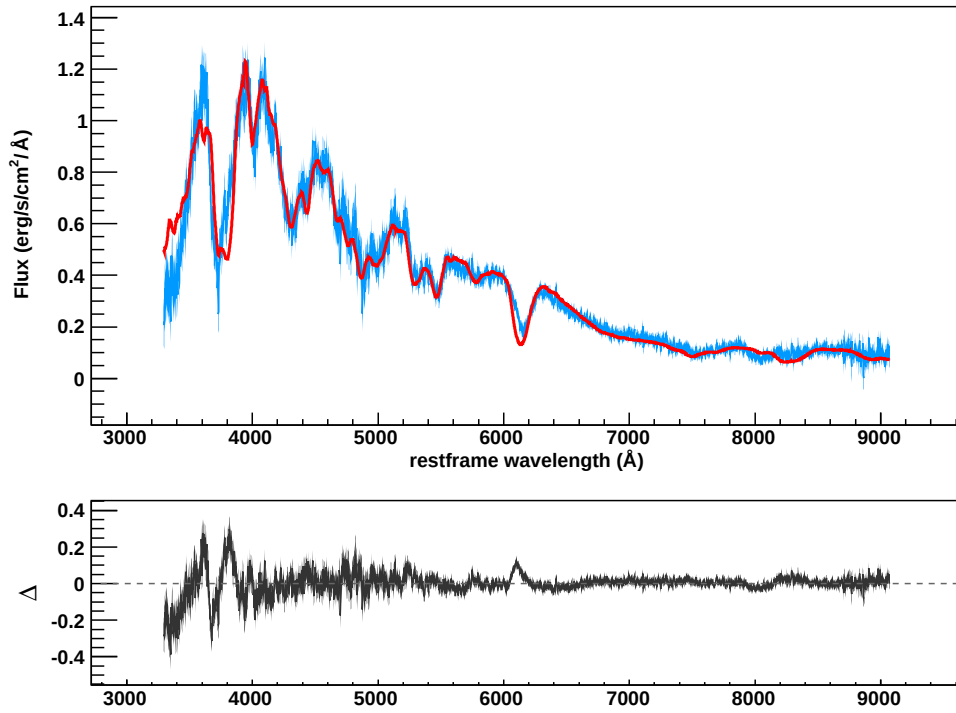
SNF20080610-000__08_169_055_003 spectrum (phase=1.1564) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.21094$

$$\begin{aligned}EW_{Ca} &= 118.69 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -29.2946052056 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.211284461961 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1898.73417722 \\ \chi^2_v \text{ without error} &= 0.00247400928862\end{aligned}$$

SNF20070701-005__07_183_098_003

validation/SNF20070701-005/SNF20070701-005_M000014_restframe.list

$z = 0.0683$, phase = -0.0143 jours, color = 0.0824, stretch = 0.9458 (x1 = -0.3816)



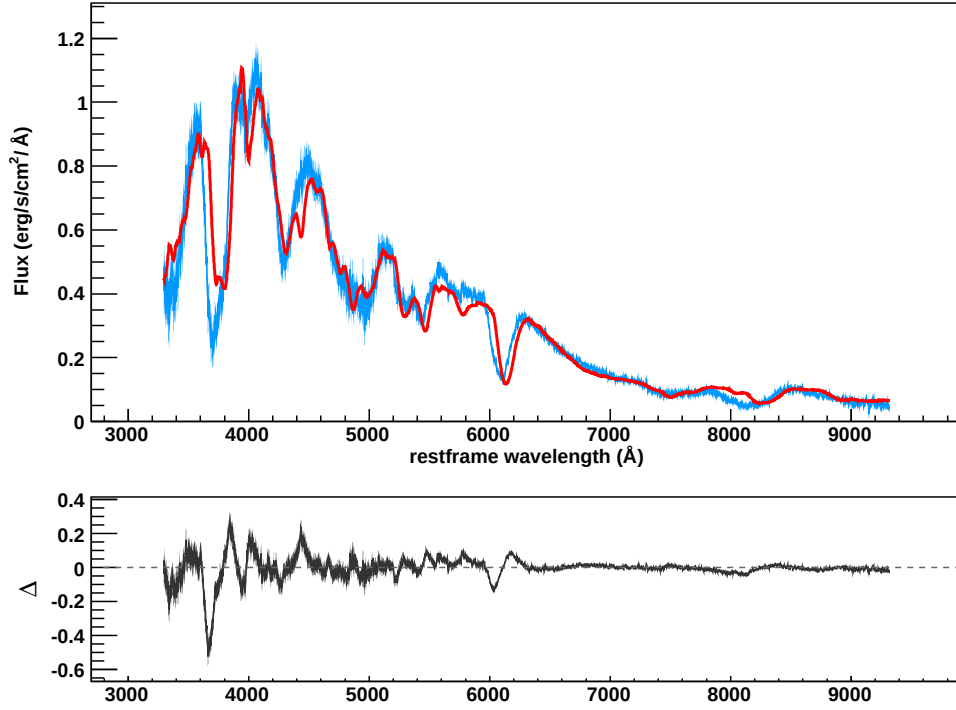
SNF20070701-005__07_183_098_003 spectrum (phase=-0.0143) with PTF11klj_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.44578$

$$\begin{aligned}EW_{Ca} &= 101.342 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 10.4180814279 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.326365455764 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3037.97468354 \\ \chi^2_v \text{ without error} &= 0.00385181532927\end{aligned}$$

SN2007kk__07_283_071_003

training/SN2007kk/SN2007kk_P000024_restframe.list

z = 0.0406, phase = 0.0241 jours, color = 0.0645, stretch = 1.0322 (x1 = 0.5643)



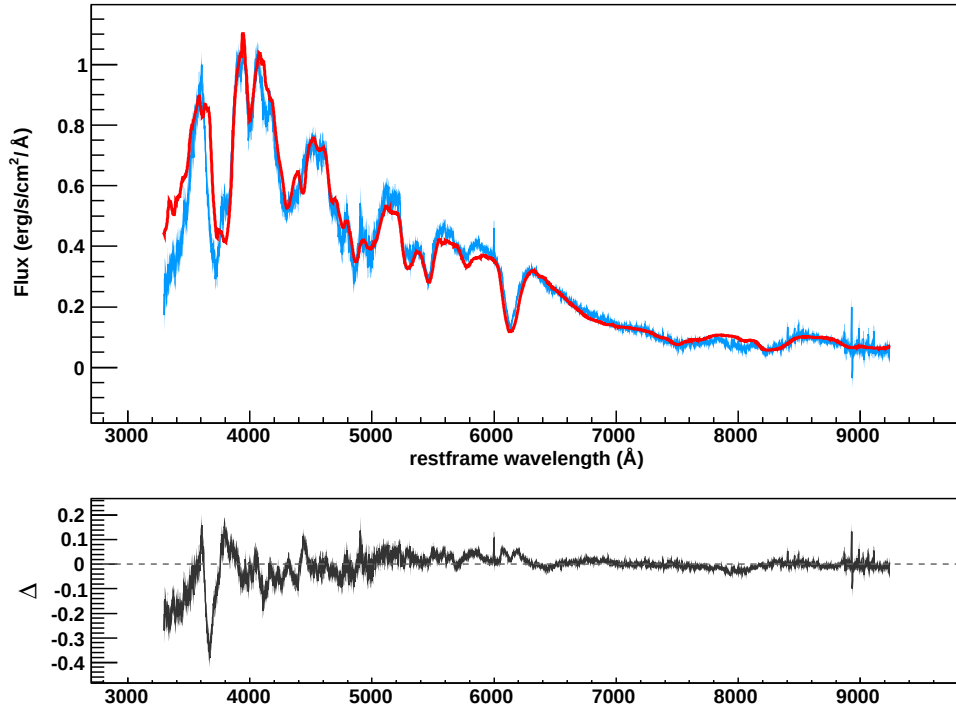
SN2007kk__07_283_071_003 spectrum (phase=0.0241) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 4.9243$

$$\begin{aligned}EW_{Ca} &= 133.426 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -27.4262662648 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.522277751946 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3645.56962025 \\ \chi^2_v \text{ without error} &= 0.00447916705836\end{aligned}$$

SNF20060908-004__06_255_054_003

training/SNF20060908-004/SNF20060908-004_P001550_restframe.list

z = 0.049, phase = 1.5503 jours, color = 0.0489, stretch = 0.9937 (x1 = 0.1498)



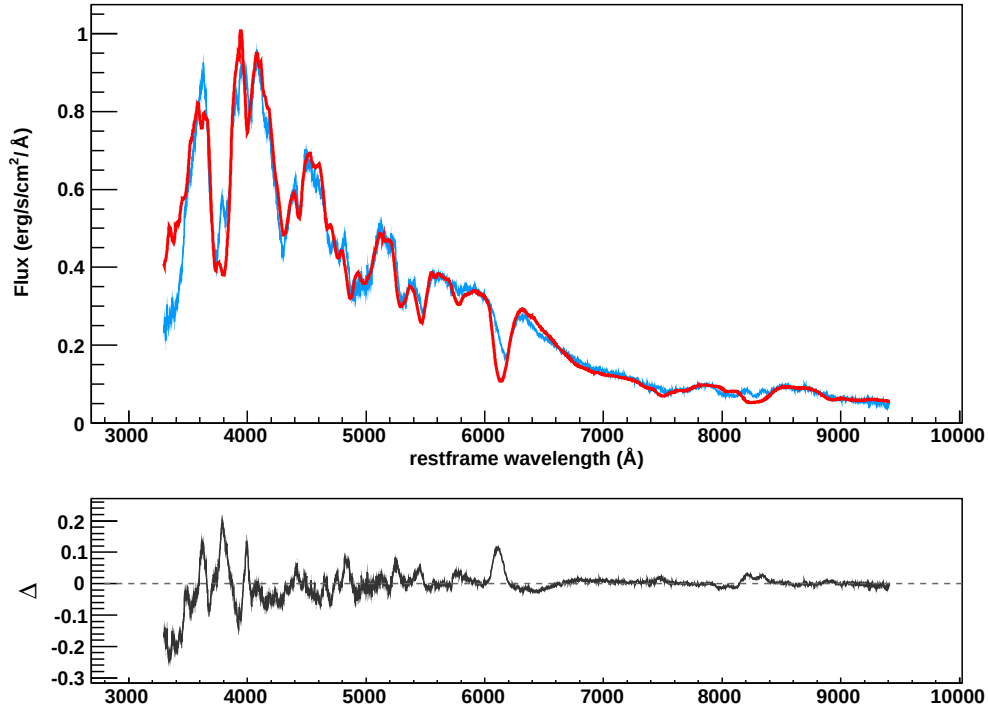
SNF20060908-004__06_255_054_003 spectrum (phase=1.5503) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 3.60541$

$$\begin{aligned}EW_{Ca} &= 121.526 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -17.627047116 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.382419729778 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3645.56962025 \\ \chi^2_v \text{ without error} &= 0.00332973417469\end{aligned}$$

SNF20080909-030__08_267_053_003

training/SNF20080909-030/SNF20080909-030_P000764_restframe.list

z = 0.0298, phase = 0.7641 jours, color = 0.0928, stretch = 1.0619 (x1 = 0.8801)



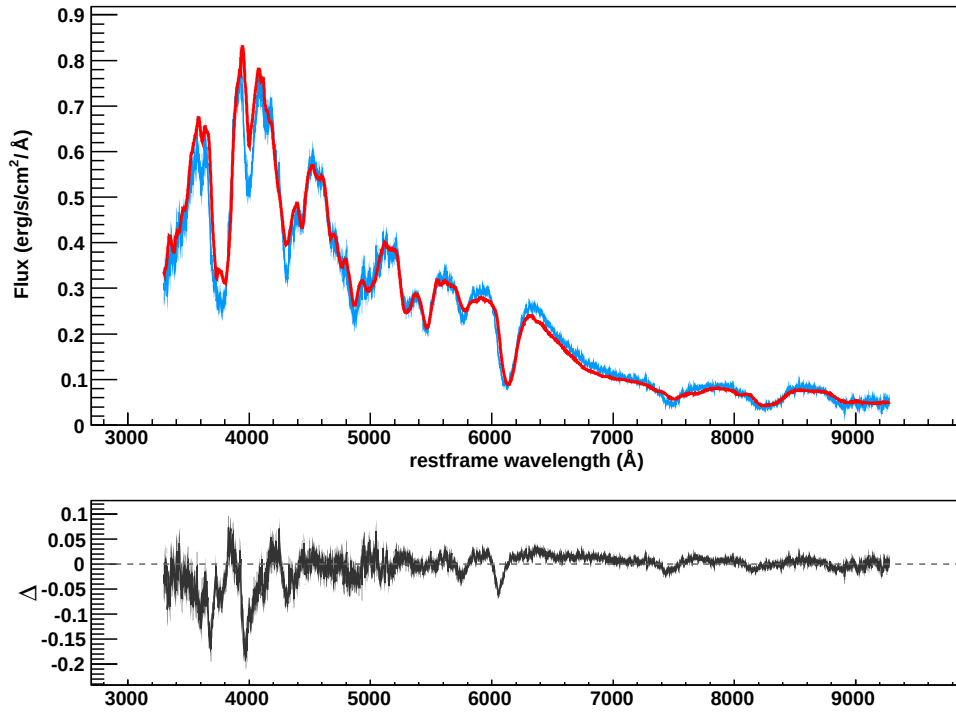
SNF20080909-030__08_267_053_003 spectrum (phase=0.7641) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 11.6394$

$$\begin{aligned}EW_{Ca} &= 86.2963 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 10.4870637016 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.0972351273014 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2810.12658228 \\ \chi^2_v \text{ without error} &= 0.00210107135855\end{aligned}$$

SNF20070806-026__07_223_071_003

training/SNF20070806-026/SNF20070806-026_P001418_restframe.list

z = 0.044, phase = 1.4183 jours, color = -0.0214, stretch = 0.8094 (x1 = -2.0951)



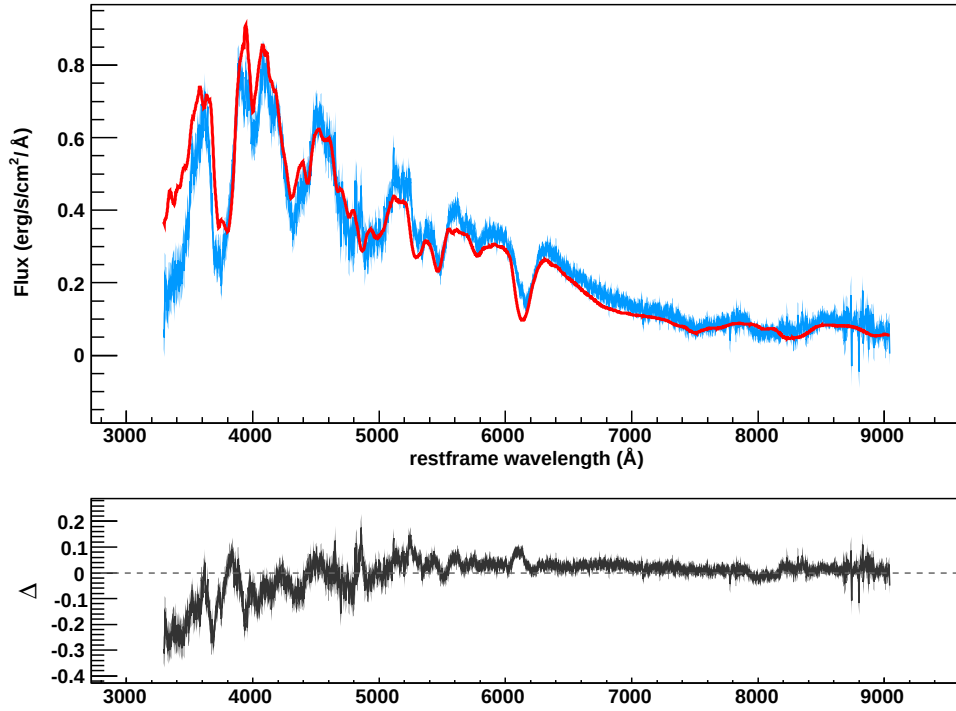
SNF20070806-026__07_223_071_003 spectrum (phase=1.4183) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 3.20434$

$$\begin{aligned}EW_{Ca} &= 108.322 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -23.1078011611 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.171896224654 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -911.392405063 \\ \chi^2_v \text{ without error} &= 0.000919416274924\end{aligned}$$

SNF20060912-000__06_259_076_003

validation/SNF20060912-000/SNF20060912-000_P002000_restframe.list

$z = 0.072$, phase = 2.0001 jours, color = 0.1769, stretch = 1.016 (x1 = 0.3908)



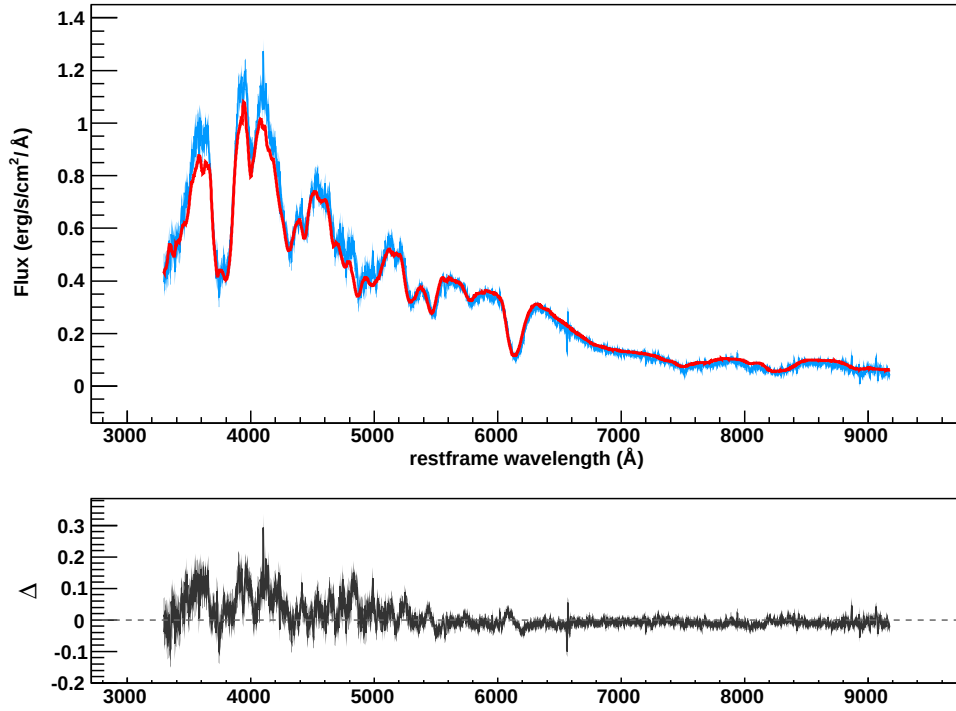
SNF20060912-000__06_259_076_003 spectrum (phase=2.0001) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 2.95002$

$$\begin{aligned}EW_{Ca} &= 107.555 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -32.0070323432 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.278282652364 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2506.32911392 \\ \chi^2_v \text{ without error} &= 0.00466059876968\end{aligned}$$

SNF20060907-000__06_259_049_003

validation/SNF20060907-000/SNF20060907-000_P000533_restframe.list

z = 0.0562, phase = 0.5339 jours, color = -0.1221, stretch = 0.9179 (x1 = -0.701)



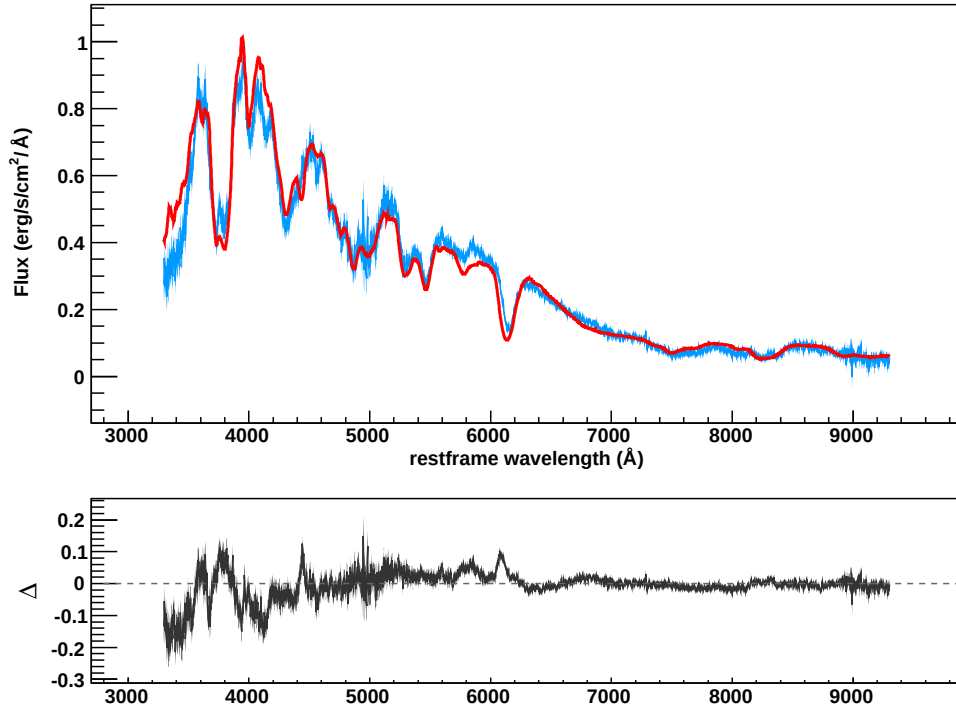
SNF20060907-000__06_259_049_003 spectrum (phase=0.5339) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.78996$

$$\begin{aligned}EW_{Ca} &= 108.921 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 23.8749210508 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.104719872687 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1670.88607595 \\ \chi^2_v \text{ without error} &= 0.00165293298347\end{aligned}$$

SNF20050728-000__05_221_078_001

training/SNF20050728-000/SNF20050728-000_P002145_restframe.list

z = 0.0418, phase = 2.1457 jours, color = 0.0875, stretch = 1.0578 (x1 = 0.837)



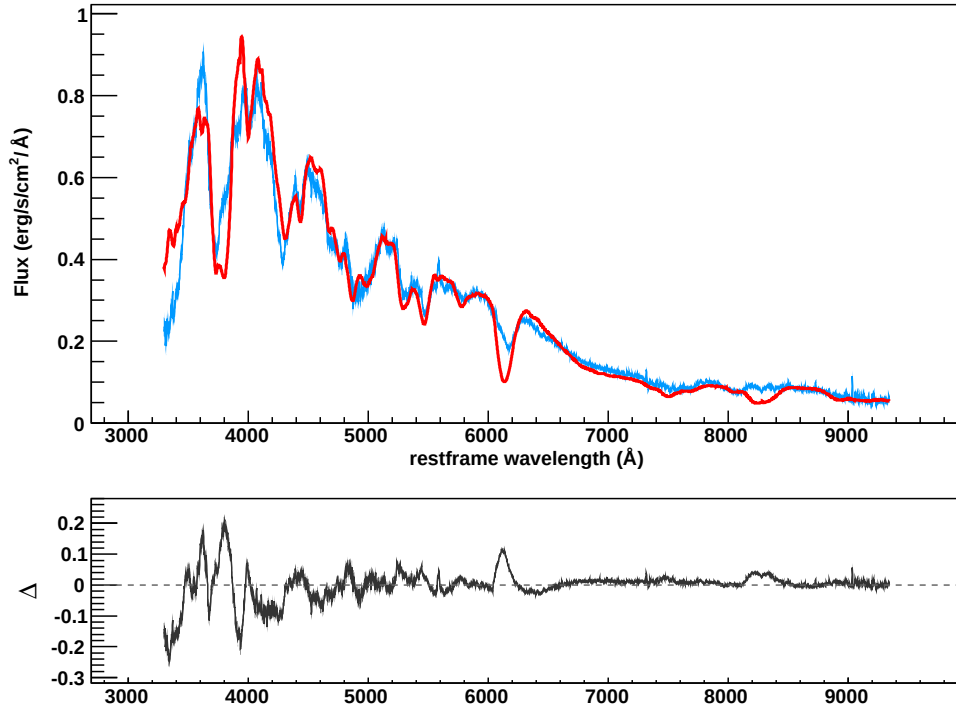
SNF20050728-000__05_221_078_001 spectrum (phase=2.1457) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 3.42452$

$$\begin{aligned}EW_{Ca} &= 93.565 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -0.851396343755 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.149625547224 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1746.83544304 \\ \chi^2_v \text{ without error} &= 0.00191896047469\end{aligned}$$

SNF20060512-001__06_144_071_003

training/SNF20060512-001/SNF20060512-001_M000938_restframe.list

z = 0.0389, phase = -0.938 jours, color = 0.1162, stretch = 1.0197 (x1 = 0.4312)



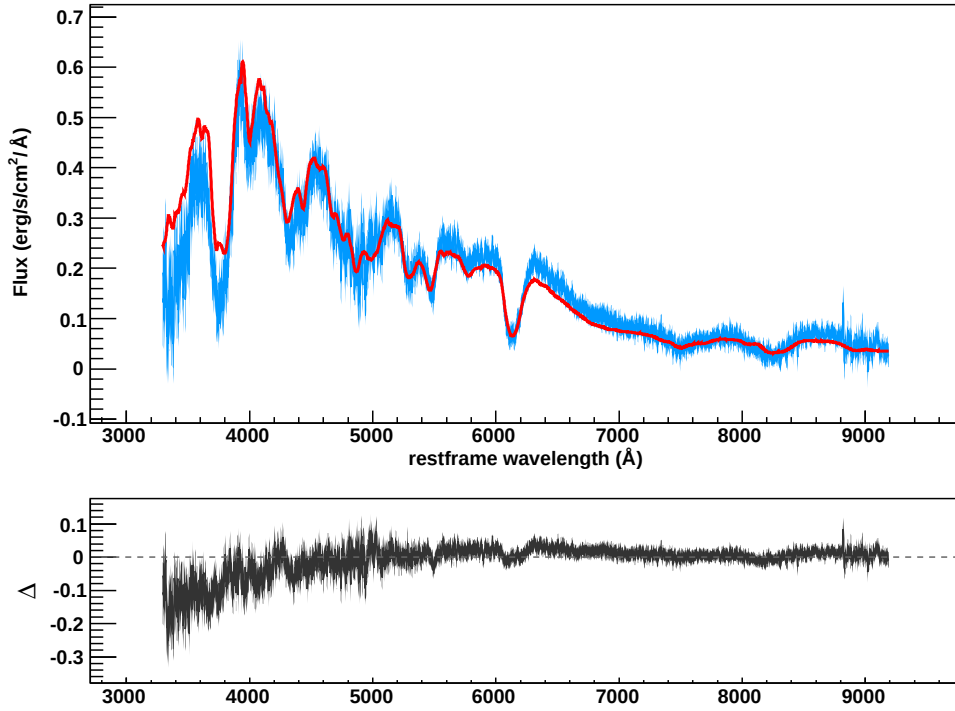
SNF20060512-001__06_144_071_003 spectrum (phase=-0.938) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 12.5533$

$$\begin{aligned}EW_{Ca} &= 83.6542 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 10.9102050388 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.114574884129 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2734.17721519 \\ \chi^2_v \text{ without error} &= 0.00245420807529\end{aligned}$$

SNF20071003-016__07_278_103_003

training/SNF20071003-016/SNF20071003-016_P001111_restframe.list

z = 0.0549, phase = 1.1116 jours, color = 0.1235, stretch = 0.935 (x1 = -0.5038)



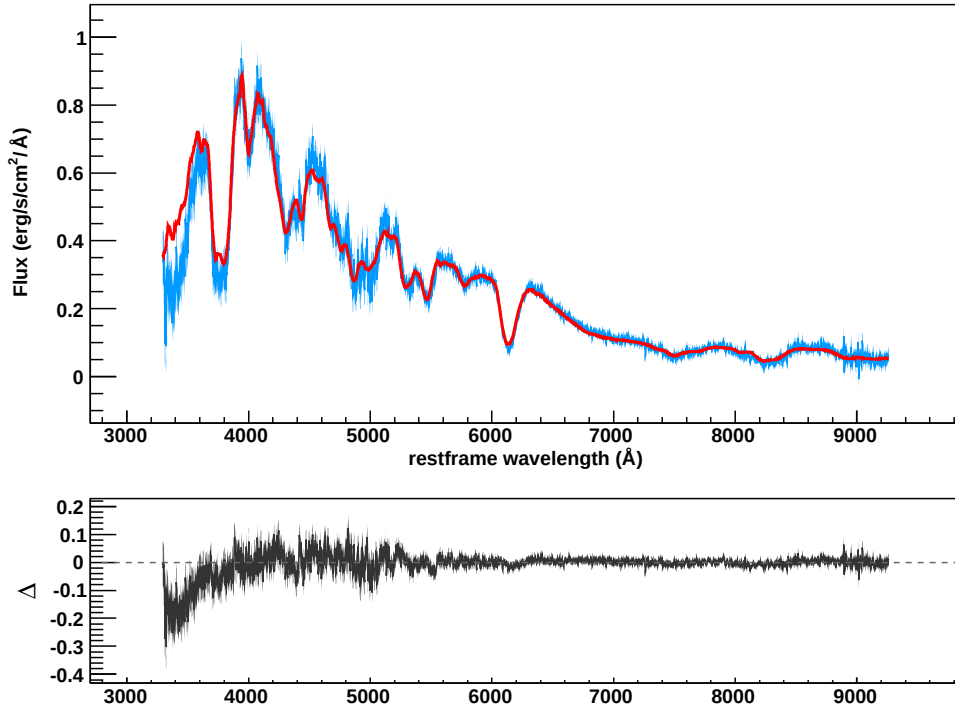
SNF20071003-016__07_278_103_003 spectrum (phase=1.1116) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.944646$

$$\begin{aligned}EW_{Ca} &= 129.25 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -32.0510750633 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.231485188927 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1594.93670886 \\ \chi^2_v \text{ without error} &= 0.00204281666426\end{aligned}$$

SNF20060511-014__06_134_086_002

validation/SNF20060511-014/SNF20060511-014_P000010_restframe.list

z = 0.0466, phase = 0.0102 jours, color = -0.0088, stretch = 0.8463 (x1 = -1.585)



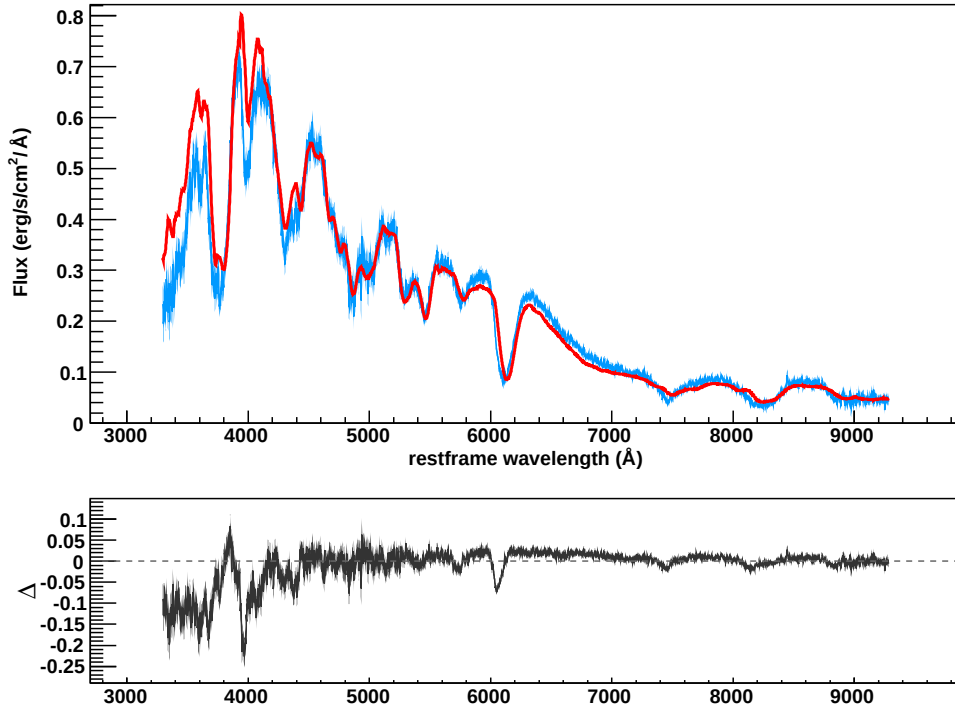
SNF20060511-014__06_134_086_002 spectrum (phase=0.0102) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.04429$

$$\begin{aligned}EW_{Ca} &= 107.569 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -13.2698730145 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.214818337453 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -987.341772152 \\ \chi^2_v \text{ without error} &= 0.00180576667239\end{aligned}$$

SN2007nq__07_300_045_003

validation/SN2007nq/SN2007nq_P001619_restframe.list

z = 0.0439, phase = 1.62 jours, color = 0.0775, stretch = 0.7848 (x1 = -2.4707)



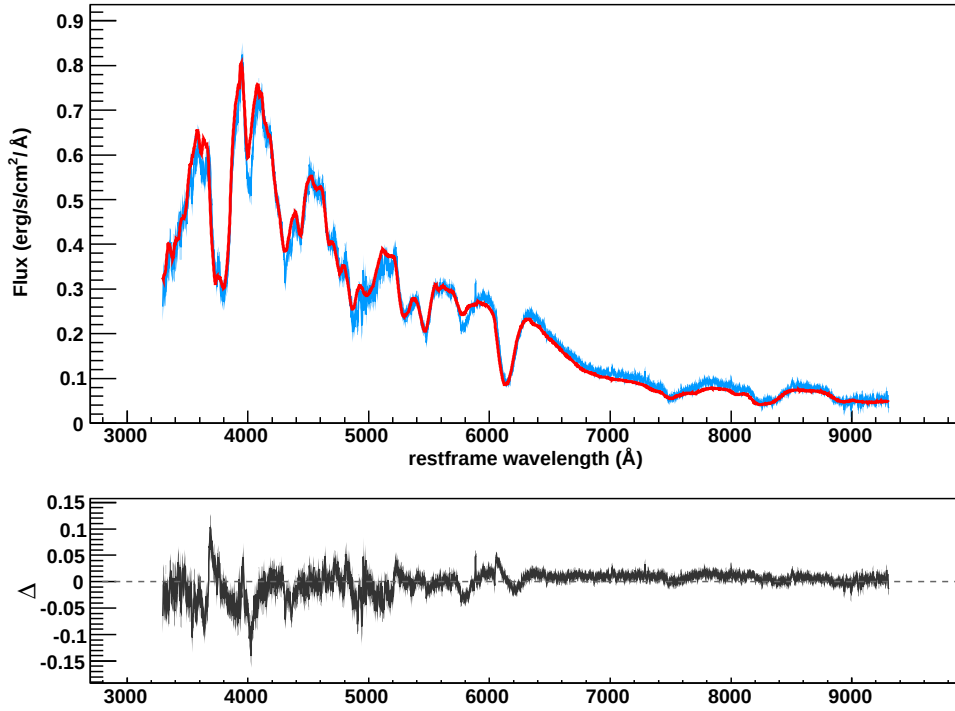
SN2007nq__07_300_045_003 spectrum (phase=1.62) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 4.64849$

$$\begin{aligned}
 EW_{Ca} &= 90.7473 \\
 \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -29.2180812102 \\
 F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.196690461447 \\
 V_{obs}^{Ca} - V_{mod}^{Ca} &= -1139.24050633 \\
 \chi^2_v \text{ without error} &= 0.00191016105676
 \end{aligned}$$

SNF20080810-001__08_234_065_003

validation/SNF20080810-001/SNF20080810-001_M000043_restframe.list

$z = 0.0423$, phase = -0.0438 jours, color = 0.0614, stretch = 0.8639 ($x1 = -1.3569$)



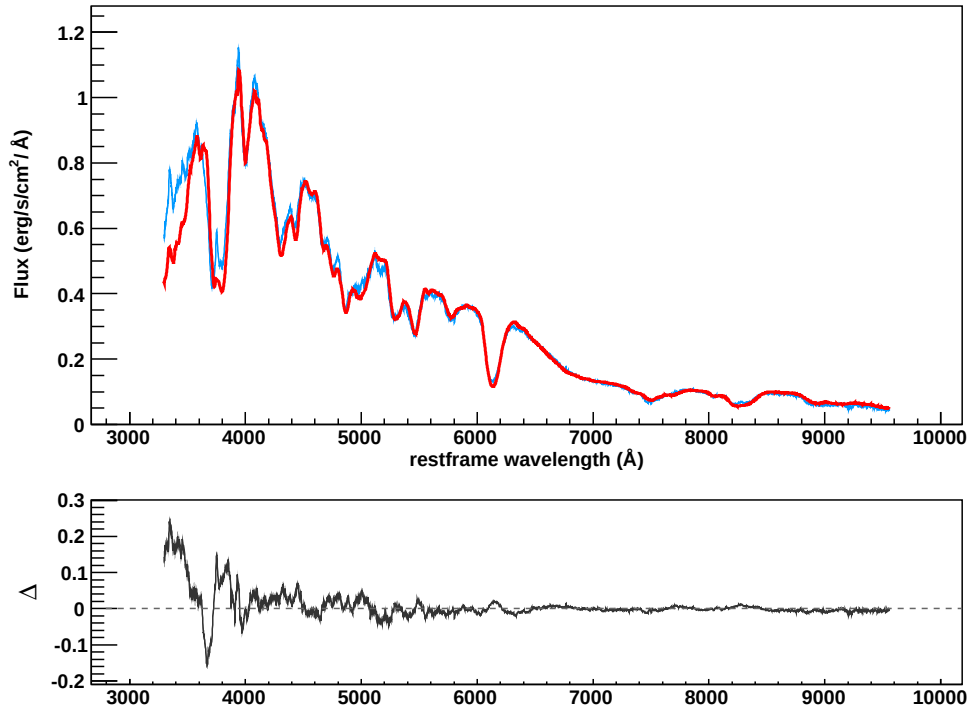
SNF20080810-001__08_234_065_003 spectrum (phase=-0.0438) with PTF11k1y_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.78697$

$$\begin{aligned}EW_{Ca} &= 92.4363 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -7.25594739922 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.106053601148 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 1594.93670886 \\ \chi^2_v \text{ without error} &= 0.000493150204247\end{aligned}$$

SN2005el__05_276_071_001

training/SN2005el/SN2005el_M0000000_restframe.list

z = 0.0149, phase = -0.0 jours, color = -0.1405, stretch = 0.8022 (x1 = -2.2017)



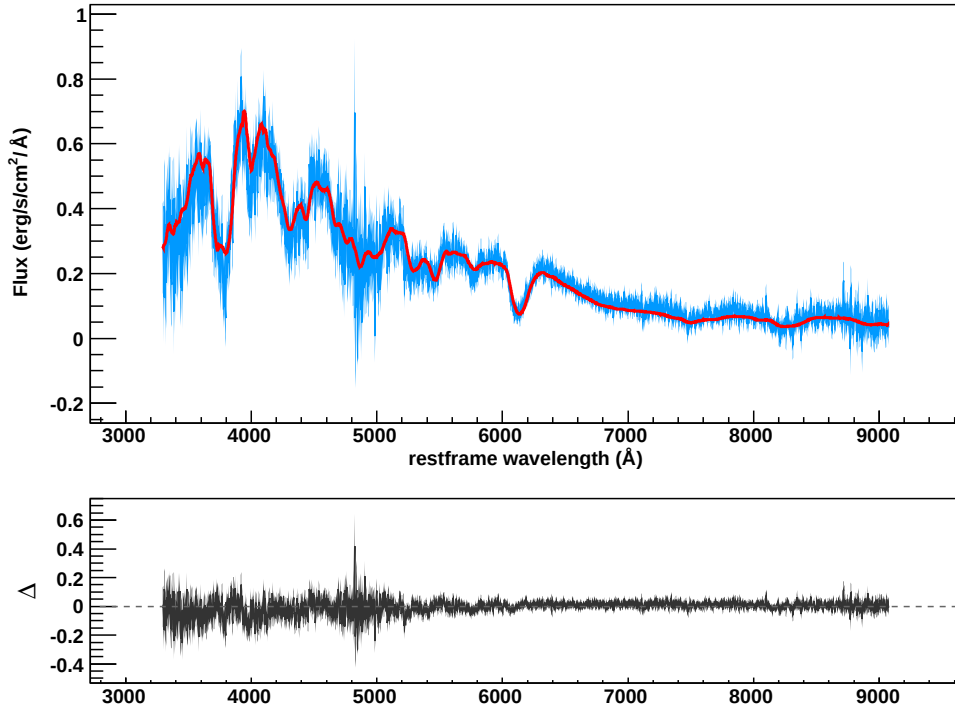
SN2005el__05_276_071_001 spectrum (phase=-0.0) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_\nu = 14.2949$

$$\begin{aligned}
 EW_{Ca} &= 103.774 \\
 \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 5.54823615378 \\
 F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.15624109229 \\
 V_{obs}^{Ca} - V_{mod}^{Ca} &= -2354.43037975 \\
 \chi^2_\nu \text{ without error} &= 0.0016100674057
 \end{aligned}$$

SNF20070902-018__07_250_090_003

validation/SNF20070902-018/SNF20070902-018_M001099_restframe.list

z = 0.068, phase = -1.0993 jours, color = 0.115, stretch = 0.8931 (x1 = -0.9961)



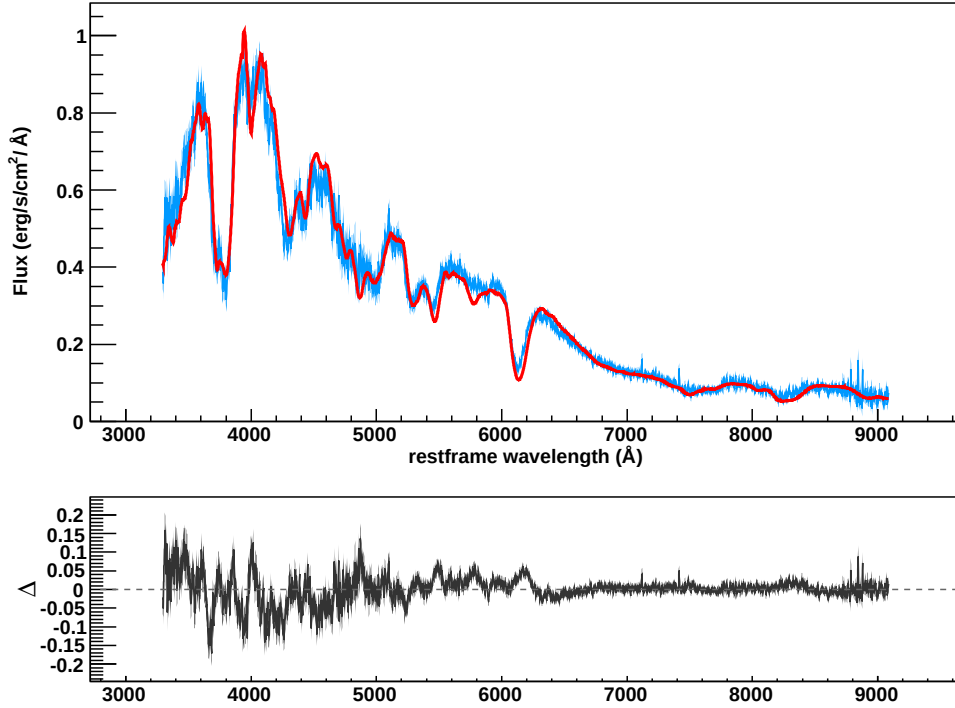
SNF20070902-018__07_250_090_003 spectrum (phase=-1.0993) with PTF11kly_11_254_039_003 fit (phase=0.140741706634) with $\chi^2_v = 0.558949$

$$\begin{aligned}EW_{Ca} &= 104.542 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -13.8585511515 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.213179170514 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 835.443037975 \\ \chi^2_v \text{ without error} &= 0.00214715044\end{aligned}$$

SN2006cj__06_144_065_003

training/SN2006cj/SN2006cj_M000619_restframe.list

z = 0.0685, phase = -0.6191 jours, color = 0.0496, stretch = 1.0031 (x1 = 0.2518)



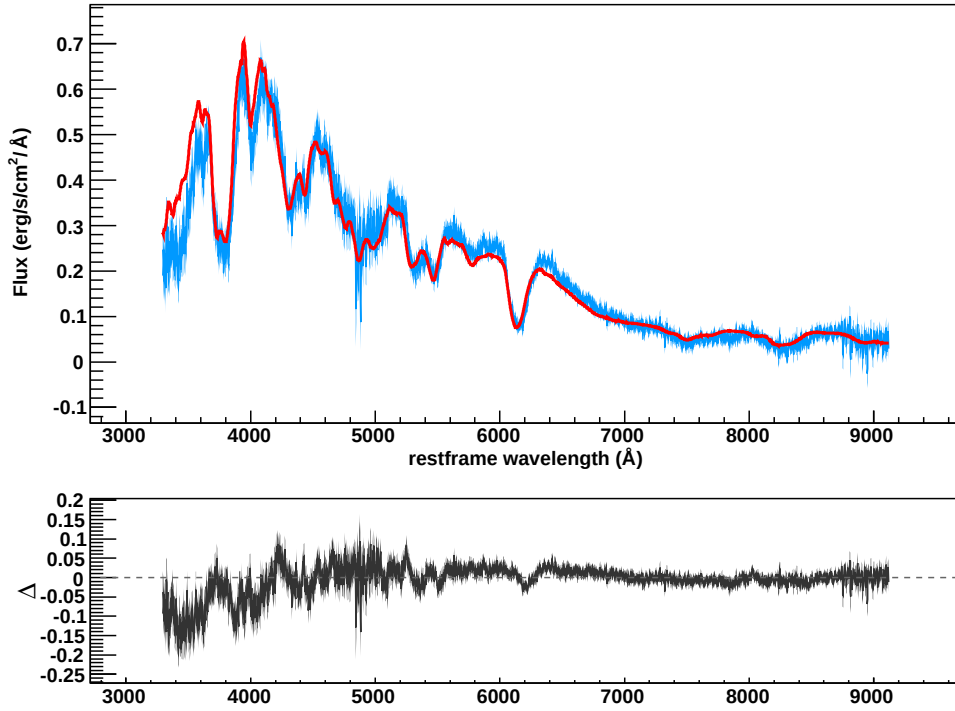
SN2006cj__06_144_065_003 spectrum (phase=-0.6191) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.95541$

$$\begin{aligned}EW_{Ca} &= 106.812 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -9.30760143277 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.171186936101 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 227.848101266 \\ \chi^2_v \text{ without error} &= 0.00126623750978\end{aligned}$$

SNF20070817-003__07_238_073_003

validation/SNF20070817-003/SNF20070817-003_P001554_restframe.list

$z = 0.063$, phase = 1.5541 jours, color = -0.0139, stretch = 0.8739 ($x1 = -1.2311$)



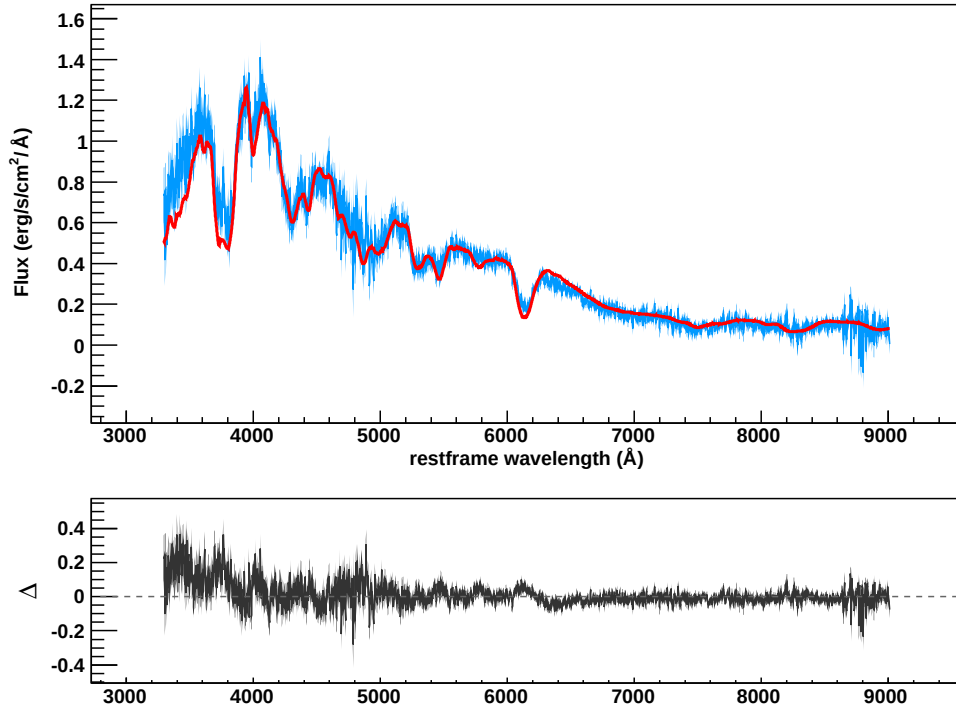
SNF20070817-003__07_238_073_003 spectrum (phase=1.5541) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.46326$

$$\begin{aligned}EW_{Ca} &= 95.4838 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -20.1889198432 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.169365593219 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 1670.88607595 \\ \chi^2_v \text{ without error} &= 0.00147483502817\end{aligned}$$

SNF20070427-001__07_120_066_003

validation/SNF20070427-001/SNF20070427-001_P000185_restframe.list

$z = 0.0778$, phase = 0.1859 jours, color = -0.0447, stretch = 0.9341 (x1 = -0.5147)



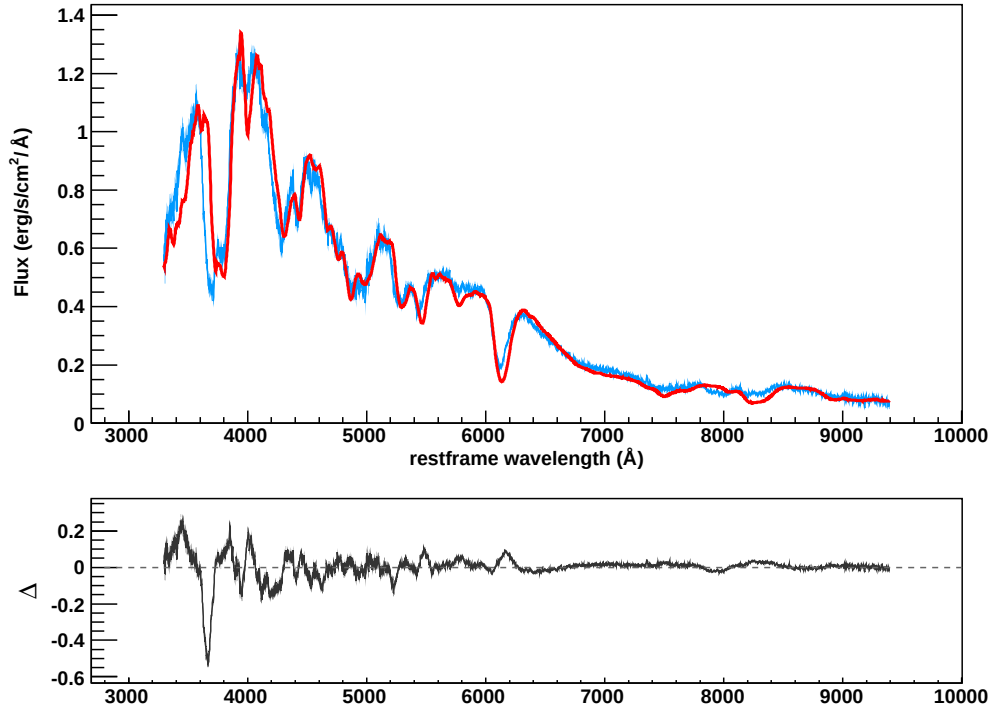
SNF20070427-001__07_120_066_003 spectrum (phase=0.1859) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.16707$

$$\begin{aligned}EW_{Ca} &= 80.9093 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 31.5223615521 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.0501953094984 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 2202.53164557 \\ \chi^2_v \text{ without error} &= 0.00453101847577\end{aligned}$$

SNF20080612-003__08_169_064_003

training/SNF20080612-003/SNF20080612-003_M000032_restframe.list

z = 0.033, phase = -0.032 jours, color = 0.0481, stretch = 1.0235 (x1 = 0.4712)



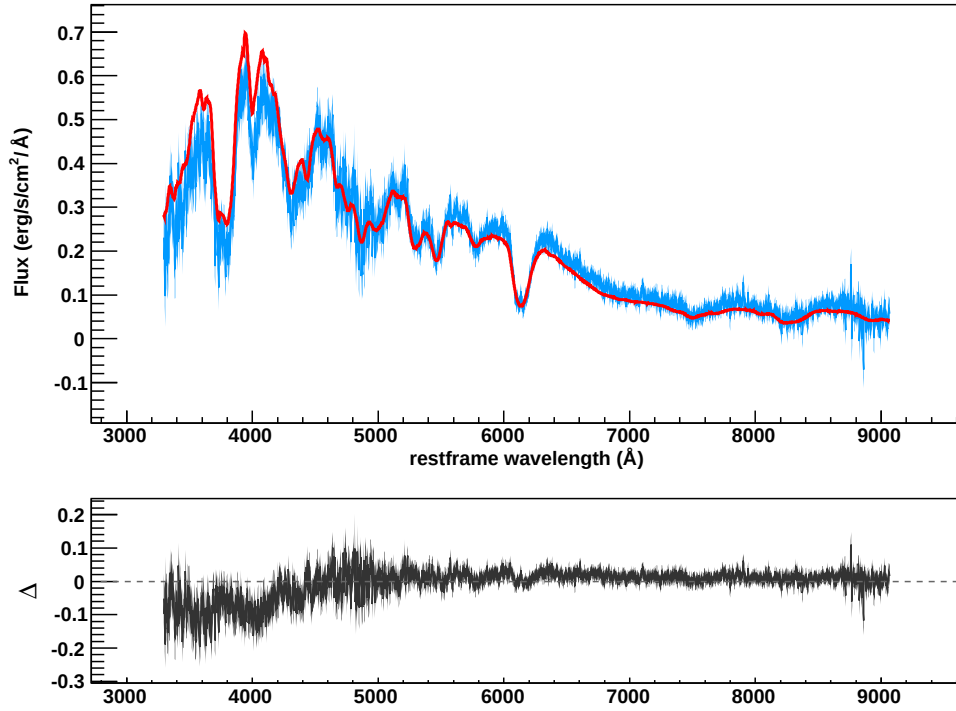
SNF20080612-003__08_169_064_003 spectrum (phase=-0.032) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 10.1113$

$$\begin{aligned}EW_{Ca} &= 124.581 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -26.4488788631 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.524712729776 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -6531.64556962 \\ \chi^2_v \text{ without error} &= 0.00466314521446\end{aligned}$$

SNF20070820-000__07_235_055_003

training/SNF20070820-000/SNF20070820-000_P000897_restframe.list

z = 0.0687, phase = 0.8971 jours, color = 0.1488, stretch = 0.9286 (x1 = -0.5773)



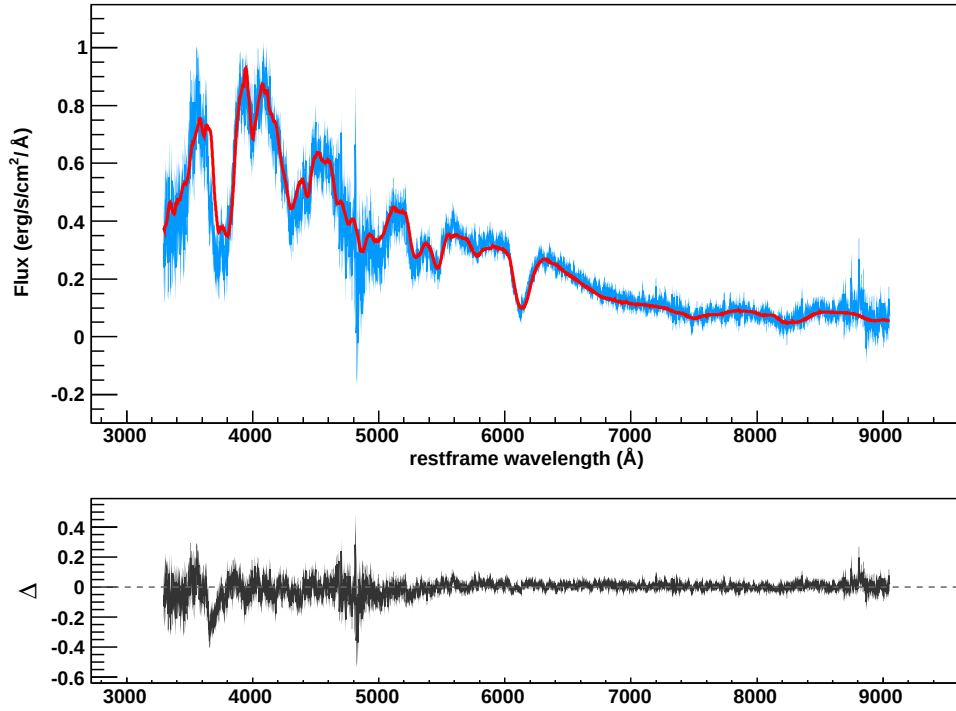
SNF20070820-000__07_235_055_003 spectrum (phase=0.8971) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.21083$

$$\begin{aligned}EW_{Ca} &= 105.418 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -32.0877858964 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.197107504565 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 151.898734177 \\ \chi^2_v \text{ without error} &= 0.00188161576875\end{aligned}$$

SNF20070630-006__07_193_086_003

training/SNF20070630-006/SNF20070630-006_P001090_restframe.list

$z = 0.0706$, phase = 1.0906 jours, color = 0.0638, stretch = 1.0102 ($x1 = 0.3291$)



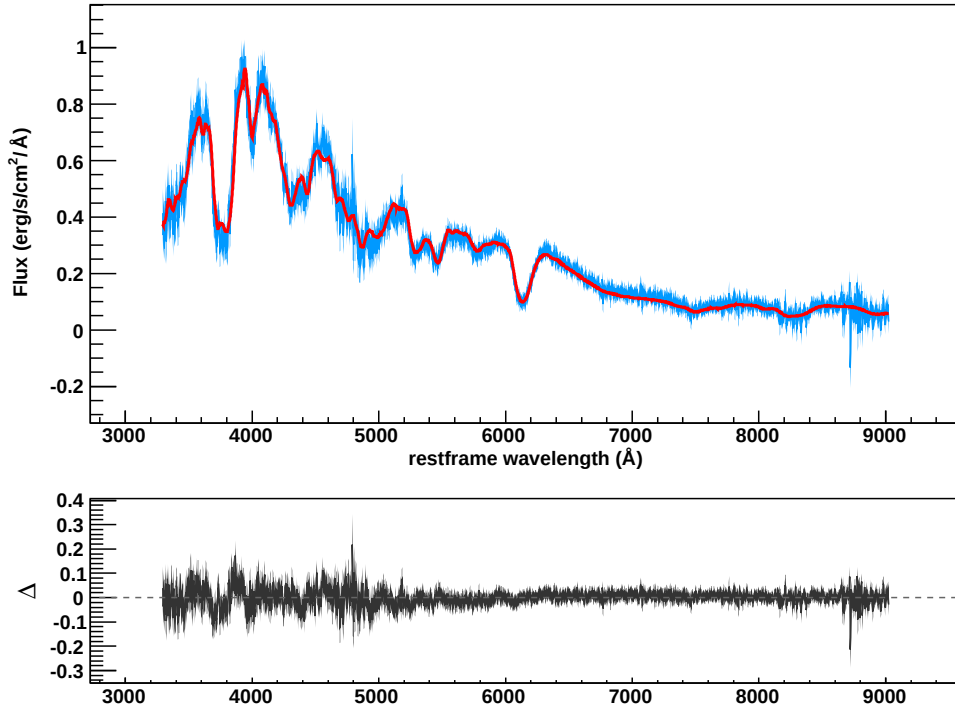
SNF20070630-006__07_193_086_003 spectrum (phase=1.0906) with PTF11kly_11_254_039_003 fit (phase=0.140741706634) with $\chi^2_v = 0.745428$

$$\begin{aligned} EW_{Ca} &= 131.493 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -23.1994854138 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.321881690955 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1822.78481013 \\ \chi^2_v \text{ without error} &= 0.00293991620937 \end{aligned}$$

SNF20070902-021__07_248_072_003

validation/SNF20070902-021/SNF20070902-021_P000468_restframe.list

$z = 0.0741$, phase = 0.4687 jours, color = 0.0316, stretch = 0.9416 (x1 = -0.4287)



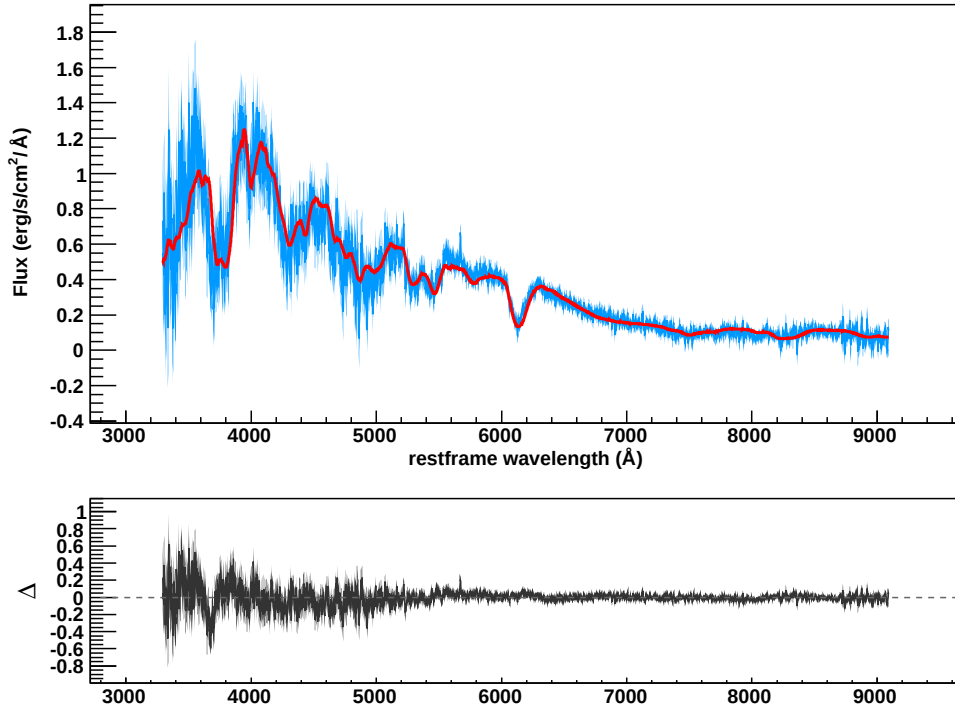
SNF20070902-021__07_248_072_003 spectrum (phase=0.4687) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.458986$

$$\begin{aligned}EW_{Ca} &= 105.567 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -1.44578285474 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.117611227255 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -911.392405063 \\ \chi^2_v \text{ without error} &= 0.000961646206206\end{aligned}$$

SNF20050624-000__05_186_094_001

validation/SNF20050624-000/SNF20050624-000_P000719_restframe.list

z = 0.0671, phase = 0.7197 jours, color = 0.0104, stretch = 1.0246 (x1 = 0.4829)



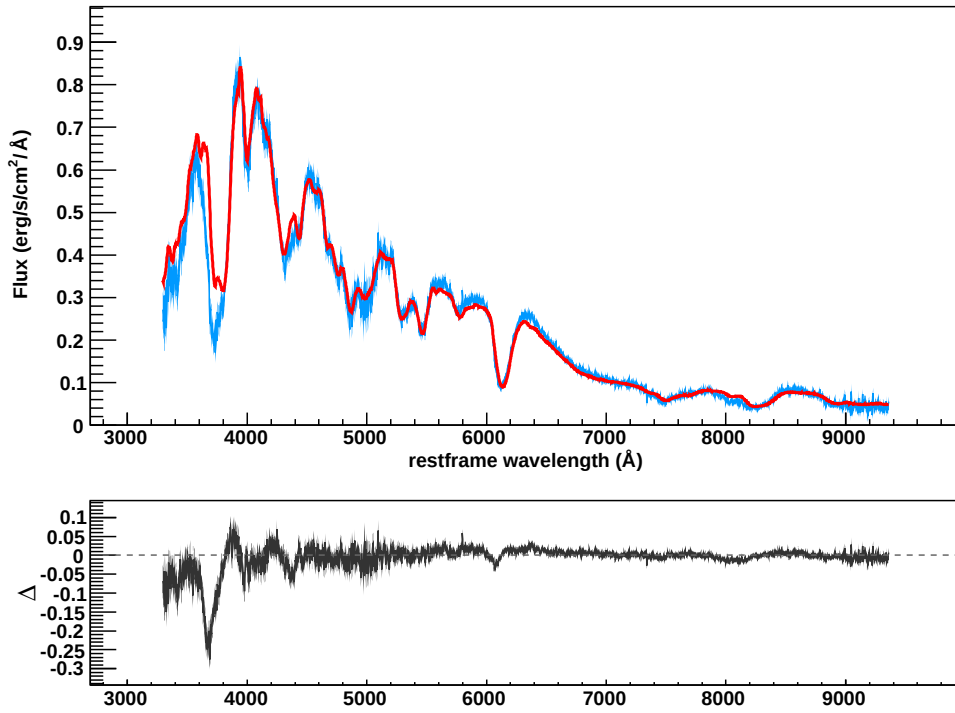
SNF20050624-000__05_186_094_001 spectrum (phase=0.7197) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.618886$

$$\begin{aligned}EW_{Ca} &= 121.739 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -6.34686029467 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.47185224739 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2962.02531646 \\ \chi^2_v \text{ without error} &= 0.00883322518318\end{aligned}$$

SNF20080531-000__08_159_068_003

validation/SNF20080531-000/SNF20080531-000_P000519_restframe.list

$z = 0.0368$, phase = 0.5198 jours, color = 0.0407, stretch = 0.9152 (x1 = -0.7326)



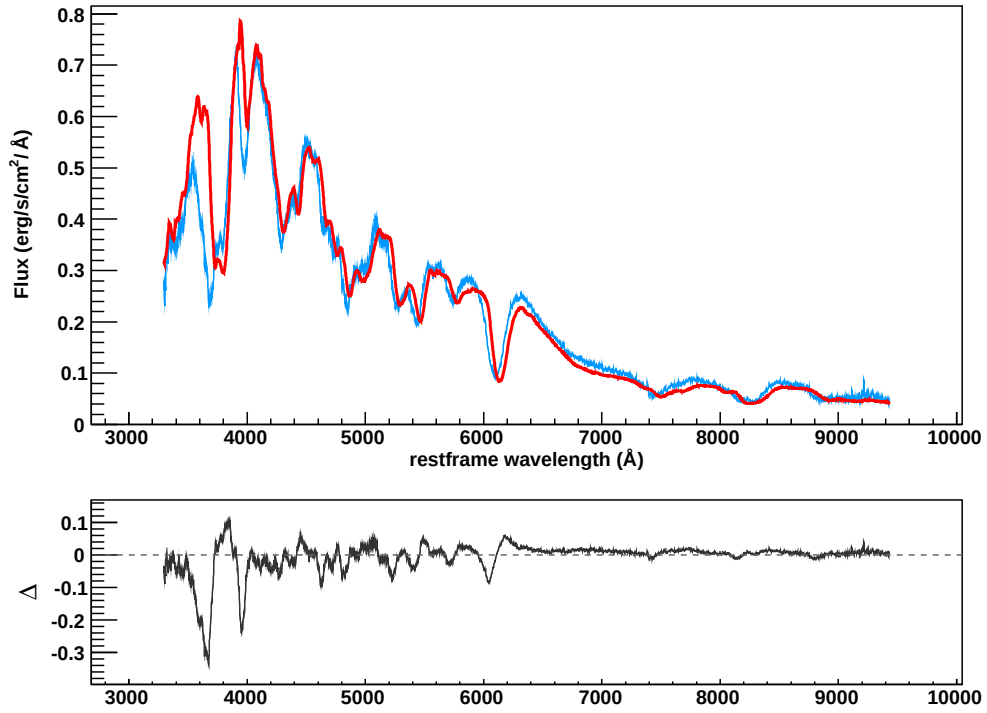
SNF20080531-000__08_159_068_003 spectrum (phase=0.5198) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 2.41158$

$$\begin{aligned}EW_{Ca} &= 134.489 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -26.5700578948 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.27603635026 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2430.37974684 \\ \chi^2_v \text{ without error} &= 0.00123515878906\end{aligned}$$

SN2006do__06_192_040_003

validation/SN2006do/SN2006do_M000627_restframe.list

z = 0.0274, phase = -0.6279 jours, color = 0.0668, stretch = 0.7565 (x1 = -2.9585)



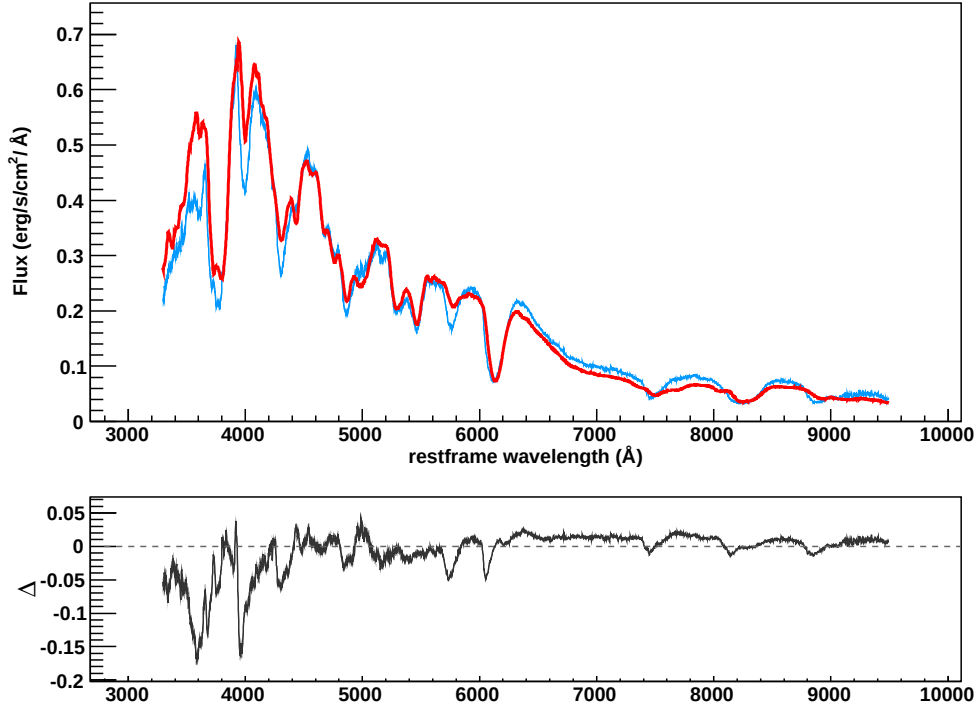
SN2006do__06_192_040_003 spectrum (phase=-0.6279) with PTF11kly_11_254_039_003 fit (phase=0.140741706634) with $\chi^2_v = 22.0034$

$$\begin{aligned}EW_{Ca} &= 116.66 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -31.240966631 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.336570939816 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -6683.5443038 \\ \chi^2_v \text{ without error} &= 0.00239546277495\end{aligned}$$

SN2006dm__06_192_029_003

training/SN2006dm/SN2006dm_M001260_restframe.list

z = 0.0208, phase = -1.2602 jours, color = 0.0996, stretch = 0.8143 (x1 = -2.0246)



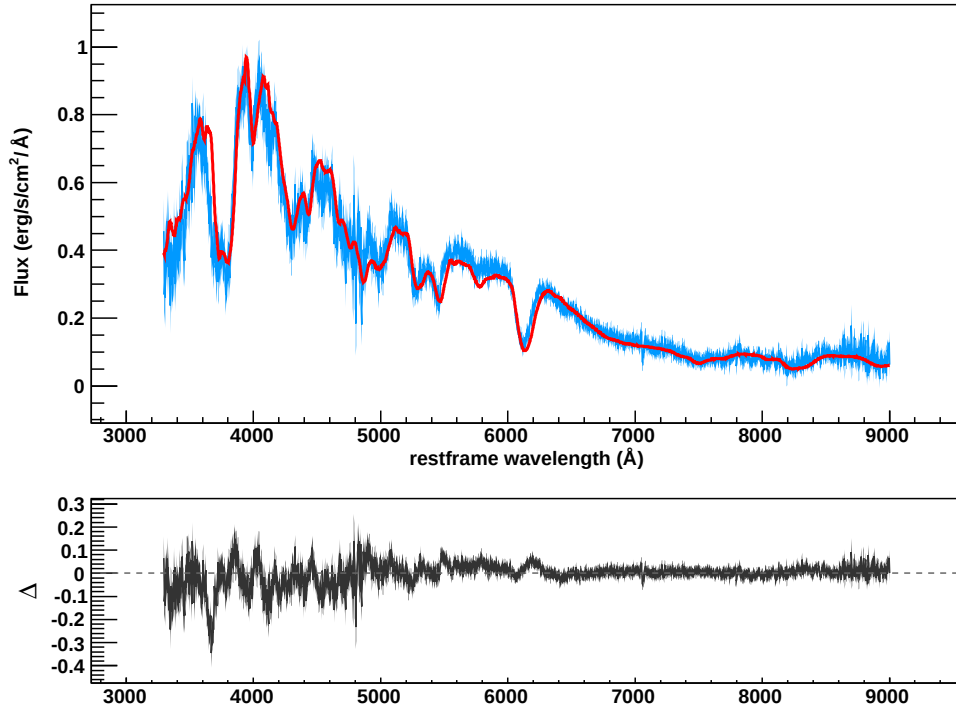
SN2006dm__06_192_029_003 spectrum (phase=-1.2602) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_\nu = 39.0048$

$$\begin{aligned}EW_{Ca} &= 93.8369 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -25.6787352872 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.16946450083 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1215.18987342 \\ \chi^2_\nu \text{ without error} &= 0.00111379788699\end{aligned}$$

SNF20060526-003__06_156_058_003

validation/SNF20060526-003/SNF20060526-003_P000703_restframe.list

$z = 0.0787$, phase = 0.704 jours, color = 0.0393, stretch = 1.0159 (x1 = 0.3904)



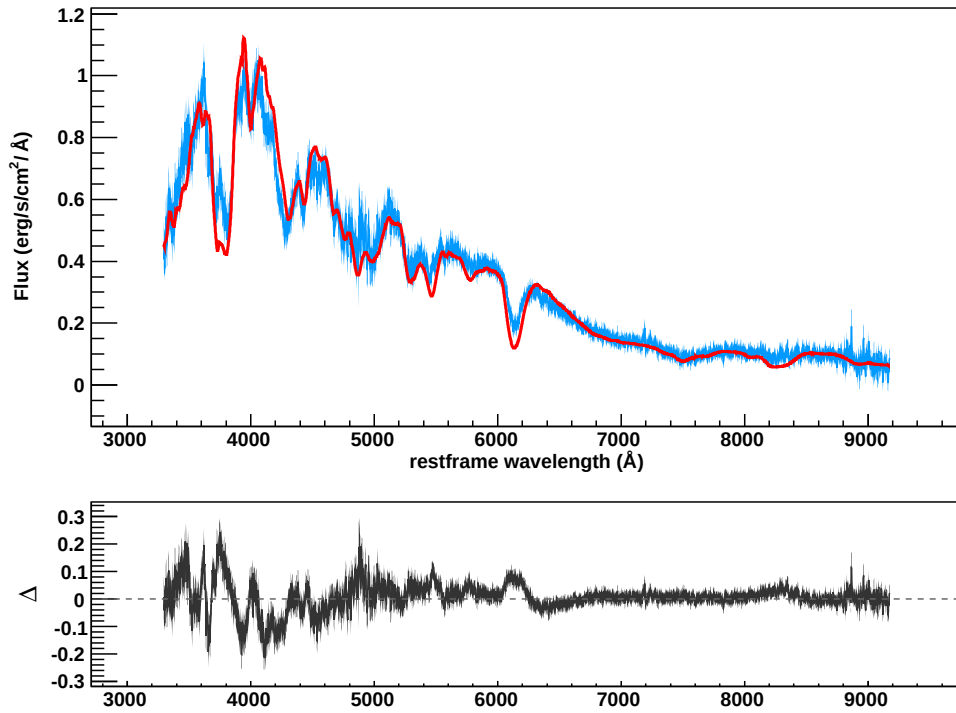
SNF20060526-003__06_156_058_003 spectrum (phase=0.704) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.04267$

$$\begin{aligned}EW_{Ca} &= 116.115 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -20.0856291229 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.343994177289 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 75.9493670886 \\ \chi^2_v \text{ without error} &= 0.00240953882671\end{aligned}$$

SN2005hj__05_304_071_003

validation/SN2005hj/SN2005hj_P000382_restframe.list

z = 0.0563, phase = 0.3826 jours, color = 0.0863, stretch = 1.1446 (x1 = 1.7516)



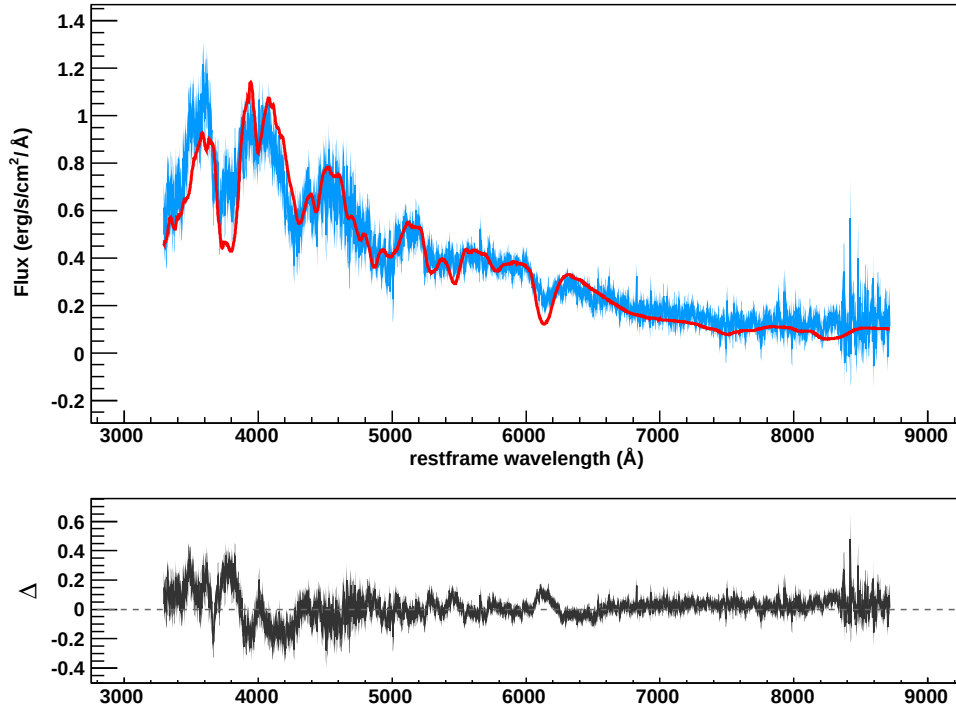
SN2005hj__05_304_071_003 spectrum (phase=0.3826) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.49033$

$$\begin{aligned}EW_{Ca} &= 81.7909 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 7.017325349 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.192622538173 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 2658.2278481 \\ \chi^2_v \text{ without error} &= 0.00256159989815\end{aligned}$$

SNF20060618-023__06_176_053_003

training/SNF20060618-023/SNF20060618-023_M002120_restframe.list

z = 0.1143, phase = -2.1206 jours, color = 0.0924, stretch = 0.9609 (x1 = -0.2116)



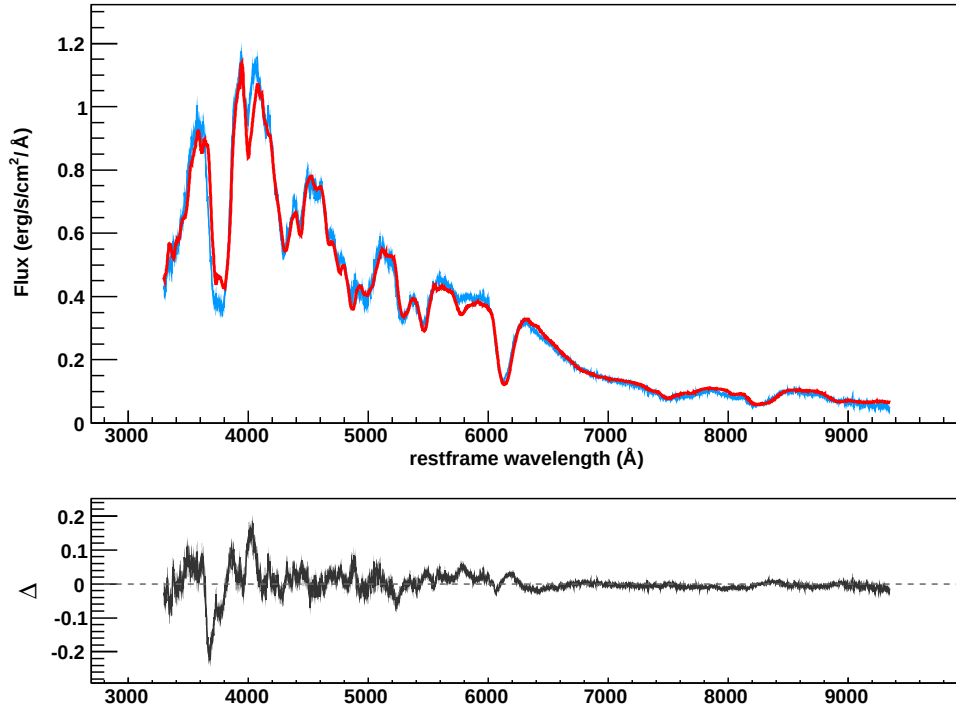
SNF20060618-023__06_176_053_003 spectrum (phase=-2.1206) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.44313$

$$\begin{aligned}EW_{Ca} &= 71.5736 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 24.6150748867 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.233844830625 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2734.17721519 \\ \chi^2_v \text{ without error} &= 0.00746260560761\end{aligned}$$

SNF20080522-011__08_152_071_003

training/SNF20080522-011/SNF20080522-011_P000678_restframe.list

z = 0.0385, phase = 0.6787 jours, color = -0.006, stretch = 1.0443 (x1 = 0.6934)



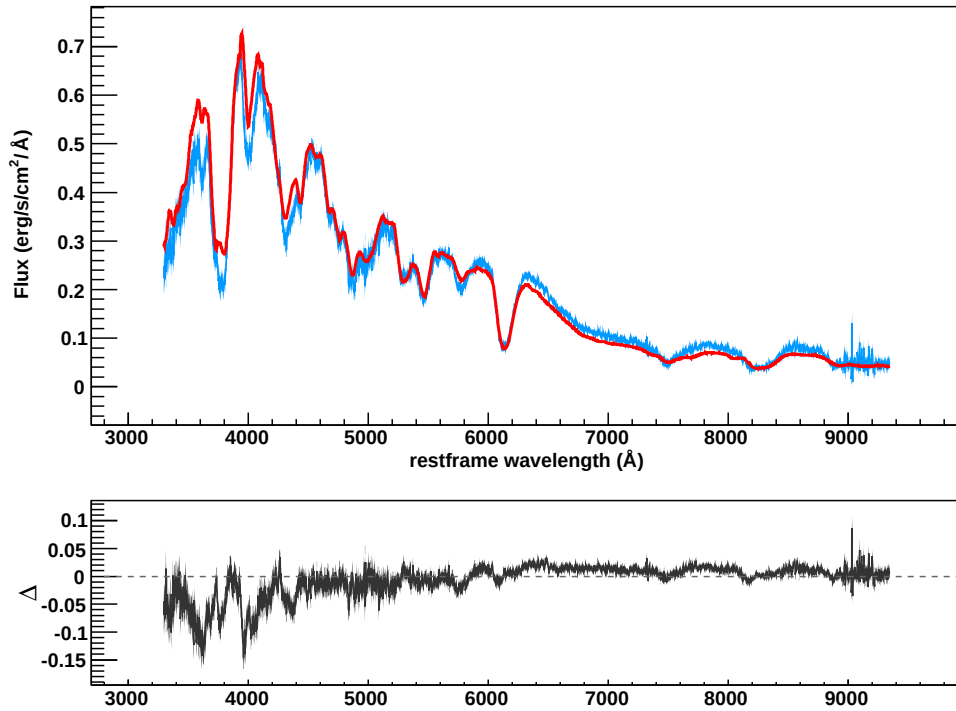
SNF20080522-011__08_152_071_003 spectrum (phase=0.6787) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 3.49031$

$$\begin{aligned}EW_{Ca} &= 124.142 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -8.80435084653 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.226627885944 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1139.24050633 \\ \chi^2_v \text{ without error} &= 0.00112489837782\end{aligned}$$

SNF20061020-000__06_301_102_003

validation/SNF20061020-000/SNF20061020-000_P000624_restframe.list

$z = 0.0372$, phase = 0.6244 jours, color = 0.0785, stretch = 0.8348 (x1 = -1.7391)



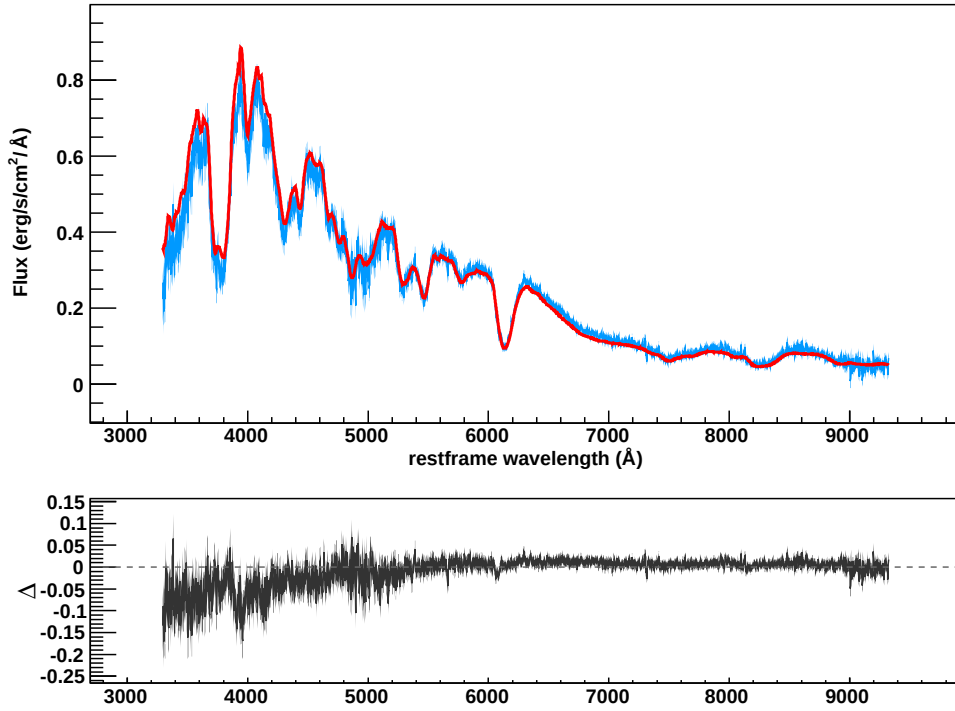
SNF20061020-000__06_301_102_003 spectrum (phase=0.6244) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 4.36276$

$$\begin{aligned}EW_{Ca} &= 112.063 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -23.4204006486 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.143204808502 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 303.797468354 \\ \chi^2_v \text{ without error} &= 0.000892094866221\end{aligned}$$

SNF20050927-005__05_276_073_001

validation/SNF20050927-005/SNF20050927-005_P001999_restframe.list

$z = 0.0399$, phase = 2.0 jours, color = 0.0146, stretch = 0.9453 ($x1 = -0.3868$)



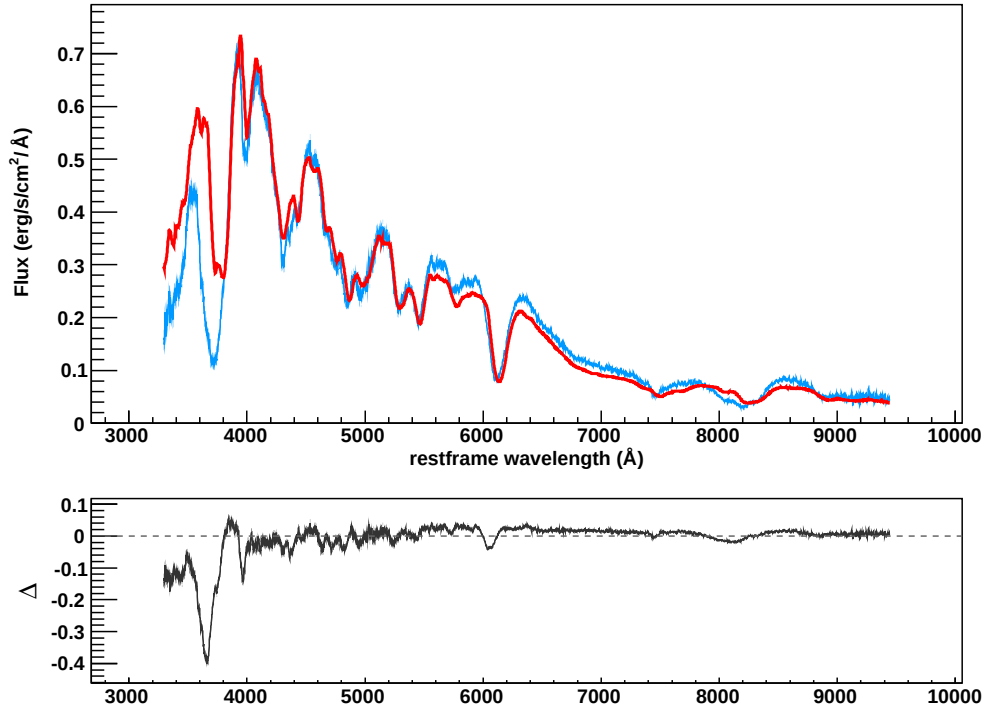
SNF20050927-005__05_276_073_001 spectrum (phase=2.0) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.37911$

$$\begin{aligned}EW_{Ca} &= 95.5438 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -22.6341395486 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.168527786288 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -227.848101266 \\ \chi^2_v \text{ without error} &= 0.00110800967683\end{aligned}$$

SNF20071021-000__07_307_043_003

training/SNF20071021-000/SNF20071021-000_M000611_restframe.list

z = 0.0262, phase = -0.6119 jours, color = 0.1354, stretch = 0.9092 (x1 = -0.803)



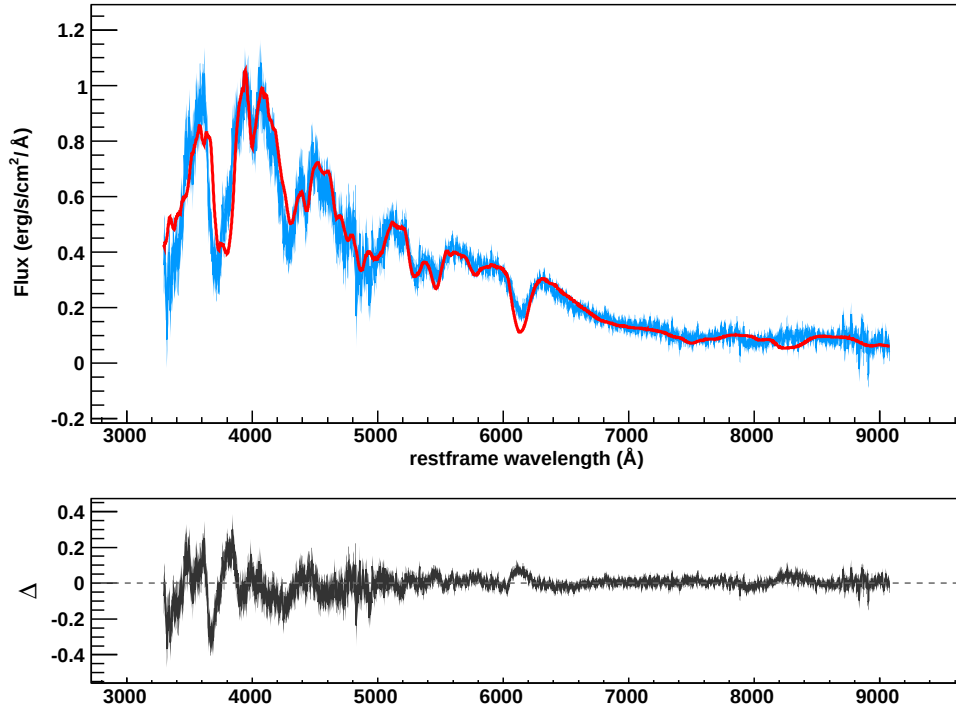
SNF20071021-000__07_307_043_003 spectrum (phase=-0.6119) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 29.8048$

$$\begin{aligned}EW_{Ca} &= 174.252 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -50.5269766271 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.400837545852 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -4025.3164557 \\ \chi^2_v \text{ without error} &= 0.00348358087869\end{aligned}$$

SNF20070831-015__07_248_063_003

validation/SNF20070831-015/SNF20070831-015_M000628_restframe.list

z = 0.0673, phase = -0.6285 jours, color = 0.089, stretch = 1.0984 (x1 = 1.2651)



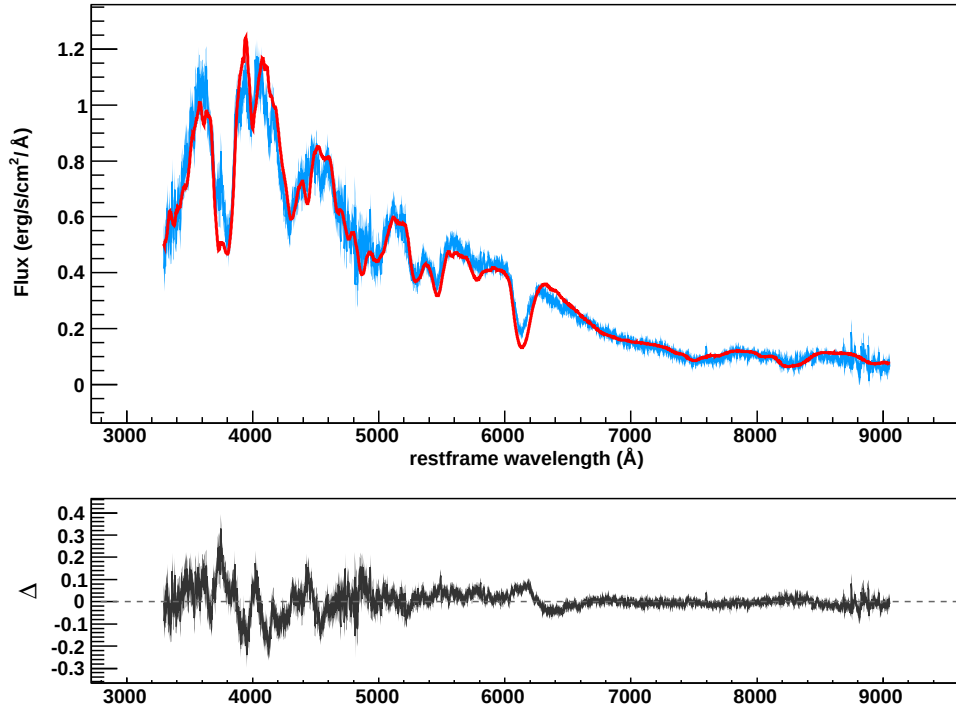
SNF20070831-015__07_248_063_003 spectrum (phase=-0.6285) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.31239$

$$\begin{aligned}EW_{Ca} &= 116.394 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -0.707521964542 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.332472397416 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3493.67088608 \\ \chi^2_v \text{ without error} &= 0.00382116449277\end{aligned}$$

SNF20080822-005__08_237_083_003

training/SNF20080822-005/SNF20080822-005_P001317_restframe.list

z = 0.0705, phase = 1.3174 jours, color = 0.0417, stretch = 1.0508 (x1 = 0.7628)



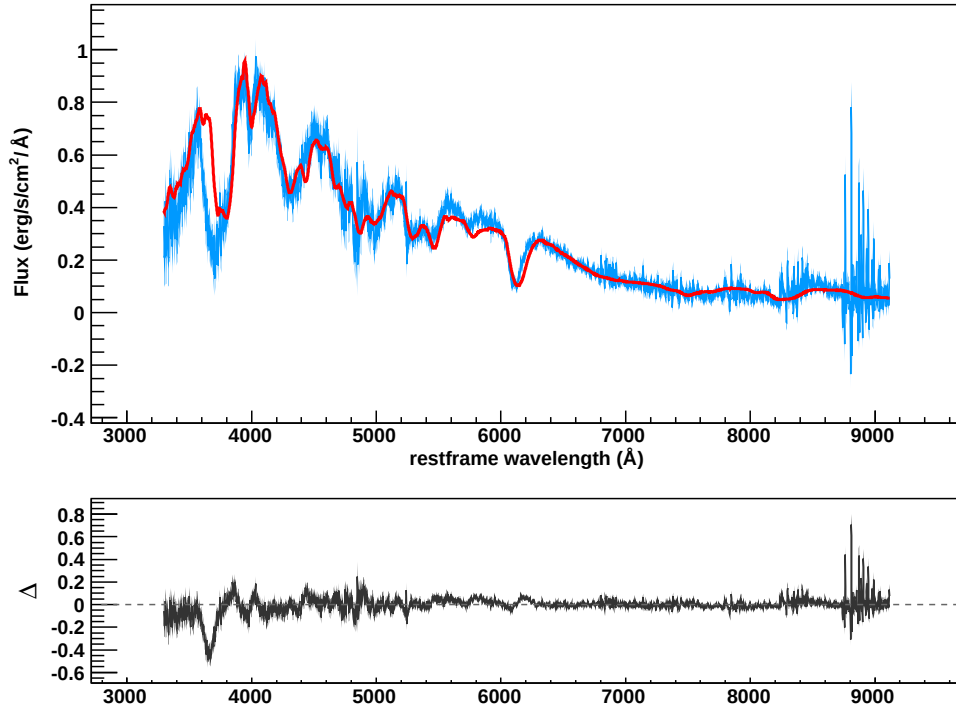
SNF20080822-005__08_237_083_003 spectrum (phase=1.3174) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 1.72715$

$$\begin{aligned}EW_{Ca} &= 83.2953 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 10.8791672003 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.104971983833 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 1443.03797468 \\ \chi^2_v \text{ without error} &= 0.00262387233517\end{aligned}$$

SNF20060618-014__06_171_096_002

training/SNF20060618-014/SNF20060618-014_P000960_restframe.list

z = 0.0649, phase = 0.9609 jours, color = 0.0367, stretch = 1.0189 (x1 = 0.4223)



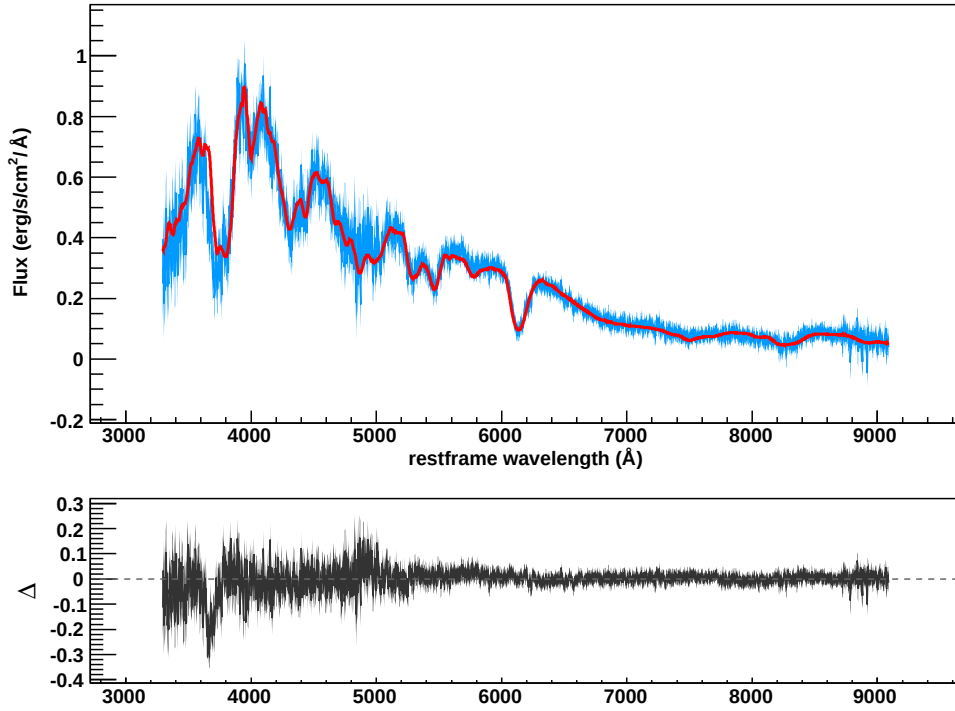
SNF20060618-014__06_171_096_002 spectrum (phase=0.9609) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 2.09375$

$$\begin{aligned}EW_{Ca} &= 140.826 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -42.2465588996 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.488172662241 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -6303.79746835 \\ \chi^2_v \text{ without error} &= 0.00578372094041\end{aligned}$$

SNF20070424-003__07_123_087_003

validation/SNF20070424-003/SNF20070424-003_P000328_restframe.list

z = 0.068, phase = 0.3284 jours, color = 0.0362, stretch = 0.9785 (x1 = -0.0167)



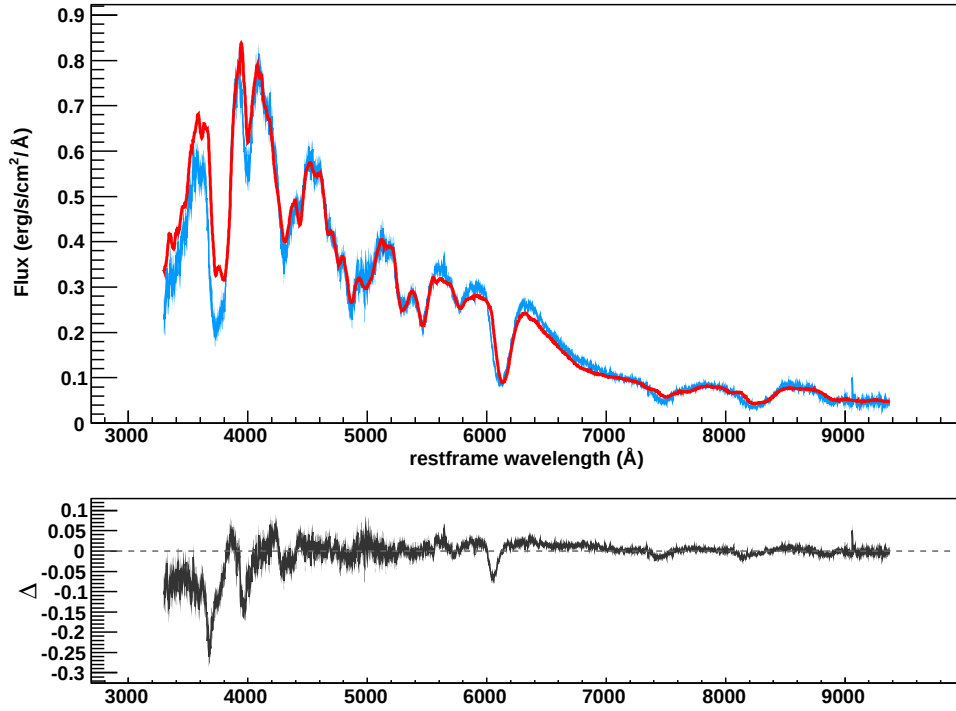
SNF20070424-003__07_123_087_003 spectrum (phase=0.3284) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 0.511003$

$$\begin{aligned}EW_{Ca} &= 122.61 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -18.5719867806 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.274594220705 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2658.2278481 \\ \chi^2_v \text{ without error} &= 0.00183145959334\end{aligned}$$

SNF20070531-011__07_152_053_003

training/SNF20070531-011/SNF20070531-011_P000532_restframe.list

z = 0.0358, phase = 0.5324 jours, color = -0.0181, stretch = 0.7883 (x1 = -2.4148)



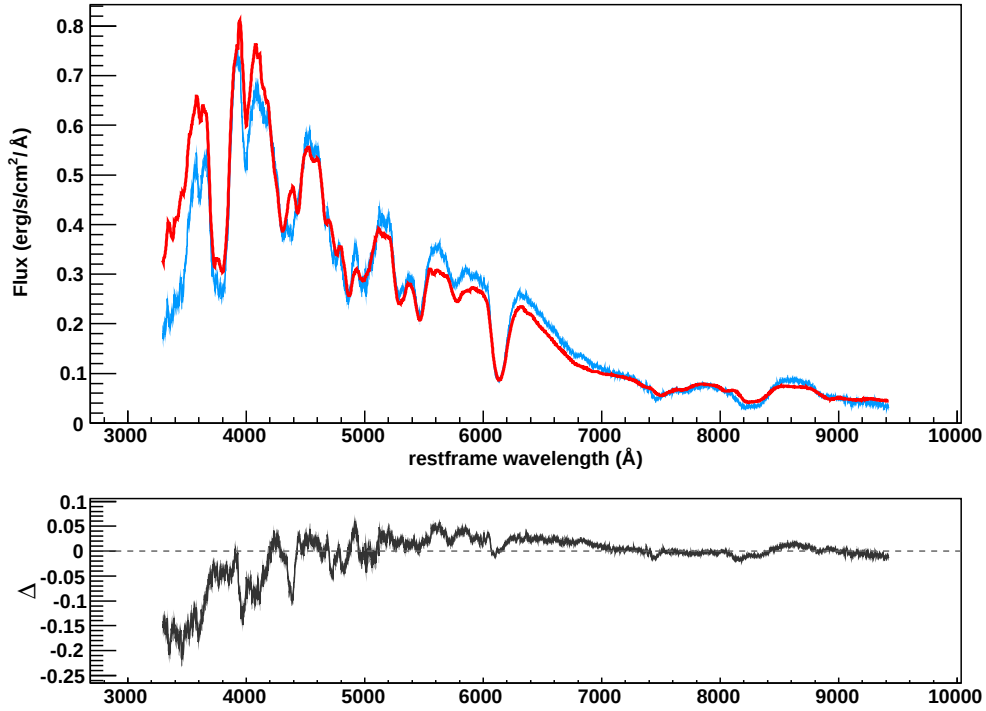
SNF20070531-011__07_152_053_003 spectrum (phase=0.5324) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 3.9331$

$$\begin{aligned}EW_{Ca} &= 124.467 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -34.0992470435 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.259970542555 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -1974.6835443 \\ \chi^2_v \text{ without error} &= 0.00146825528698\end{aligned}$$

SNF20070712-000__07_195_065_003

validation/SNF20070712-000/SNF20070712-000_P002114_restframe.list

$z = 0.0296$, phase = 2.1147 jours, color = 0.0919, stretch = 0.9158 ($x1 = -0.7266$)



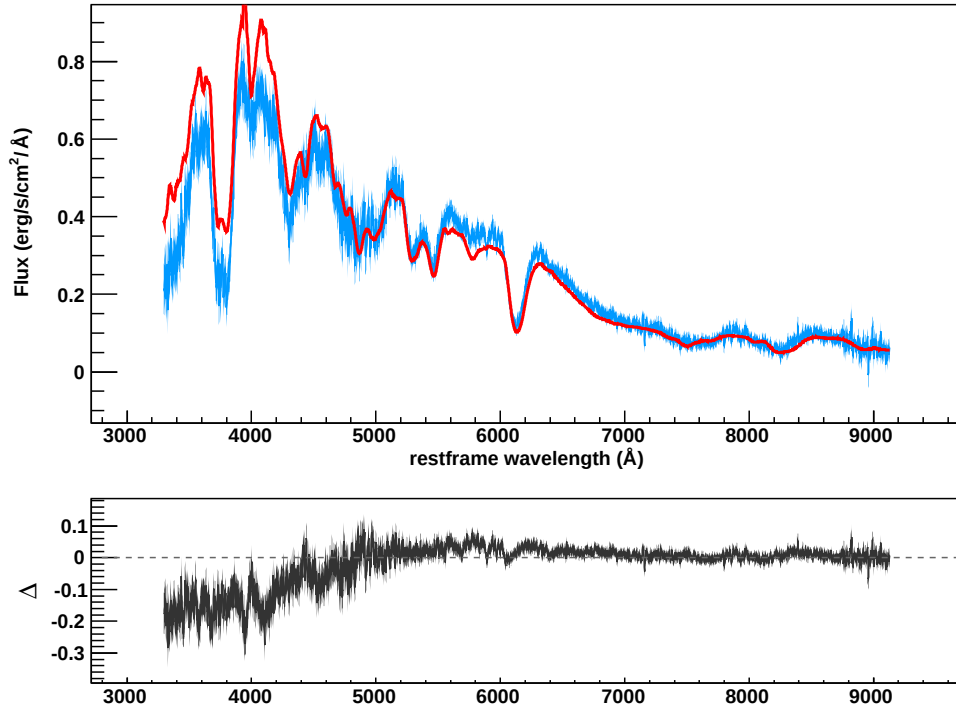
SNF20070712-000__07_195_065_003 spectrum (phase=2.1147) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 13.3061$

$$\begin{aligned}EW_{Ca} &= 97.1417 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -27.0626422445 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.183199008542 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= 227.848101266 \\ \chi^2_v \text{ without error} &= 0.00222103441267\end{aligned}$$

SNF20061021-003__06_304_043_003

training/SNF20061021-003/SNF20061021-003_P001300_restframe.list

z = 0.0615, phase = 1.3007 jours, color = 0.1476, stretch = 0.958 (x1 = -0.2441)



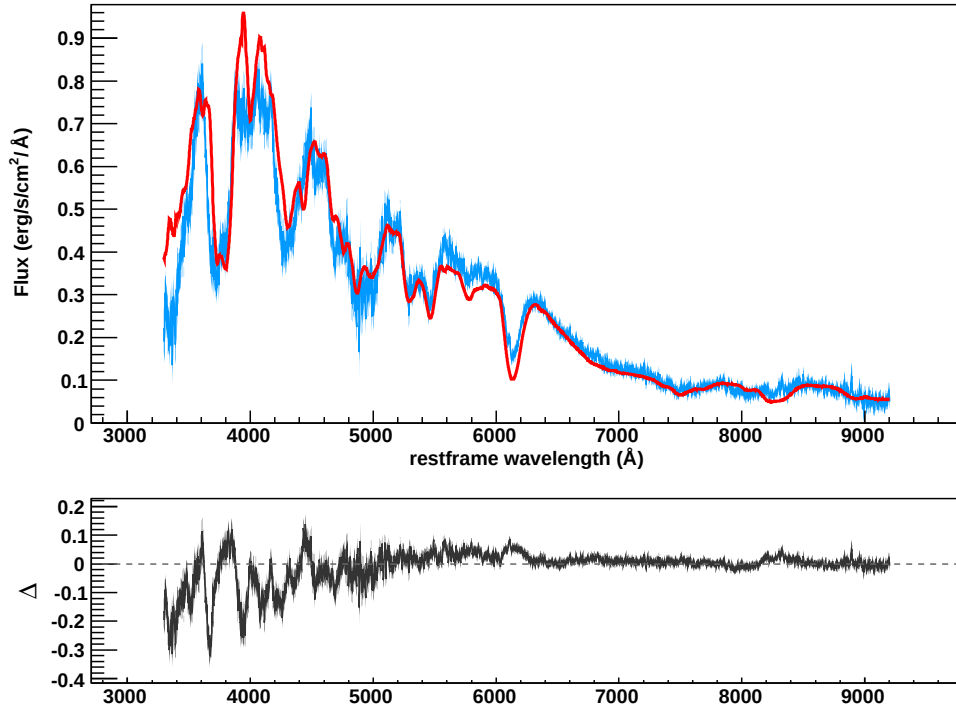
SNF20061021-003__06_304_043_003 spectrum (phase=1.3007) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 2.64118$

$$\begin{aligned}EW_{Ca} &= 116.063 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -59.6264084109 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.23616226598 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -987.341772152 \\ \chi^2_v \text{ without error} &= 0.00489363675667\end{aligned}$$

SNF20080507-000__08_134_080_003

training/SNF20080507-000/SNF20080507-000_P000164_restframe.list

z = 0.0543, phase = 0.1642 jours, color = 0.1687, stretch = 1.007 (x1 = 0.2946)



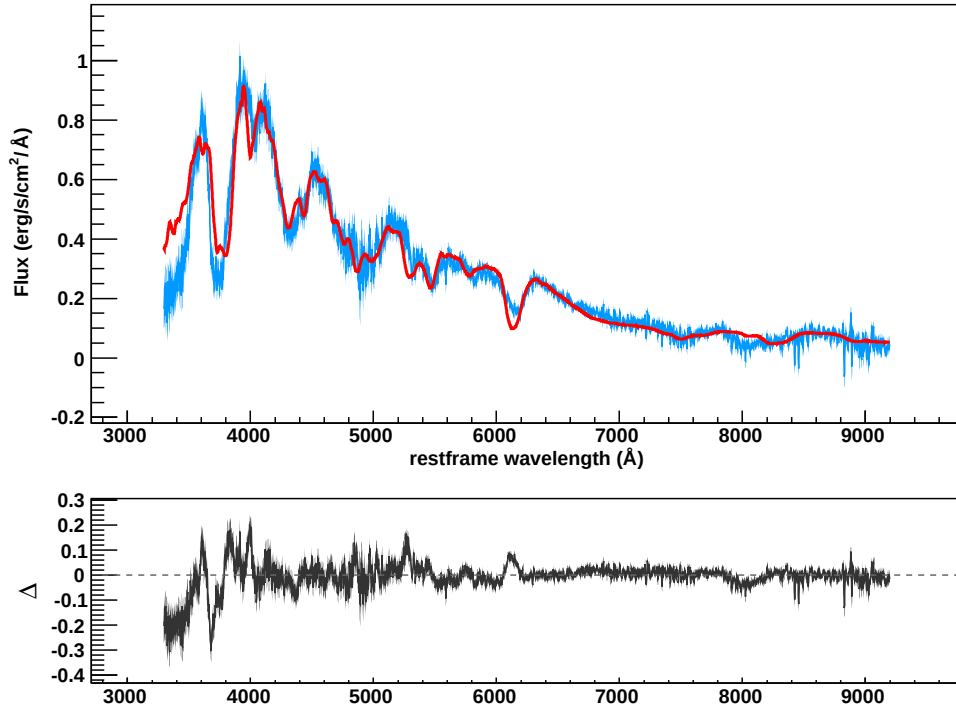
SNF20080507-000__08_134_080_003 spectrum (phase=0.1642) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 3.51083$

$$\begin{aligned}EW_{Ca} &= 103.046 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -26.672758927 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.321254390597 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2582.27848101 \\ \chi^2_v \text{ without error} &= 0.00368847536833\end{aligned}$$

SNF20080913-031__08_267_076_003

training/SNF20080913-031/SNF20080913-031_M000011_restframe.list

$z = 0.054$, phase = -0.0111 jours, color = 0.0528, stretch = 0.967 (x1 = -0.143)



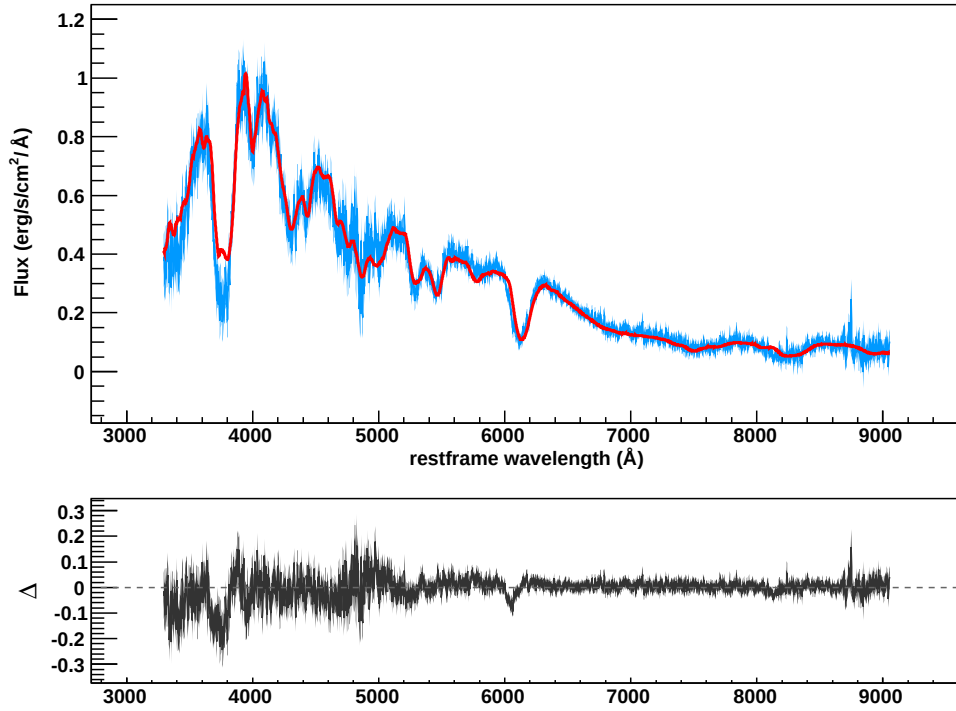
SNF20080913-031__08_267_076_003 spectrum (phase=-0.0111) with PTF11kly_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 2.85969$

$$\begin{aligned}EW_{Ca} &= 119.813 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 2.07088896475 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.3040846001 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -2582.27848101 \\ \chi^2_v \text{ without error} &= 0.00337317897261\end{aligned}$$

SNF20080510-001__08_139_080_003

training/SNF20080510-001/SNF20080510-001_M000559_restframe.list

z = 0.0723, phase = -0.559 jours, color = -0.0044, stretch = 0.9656 (x1 = -0.1586)



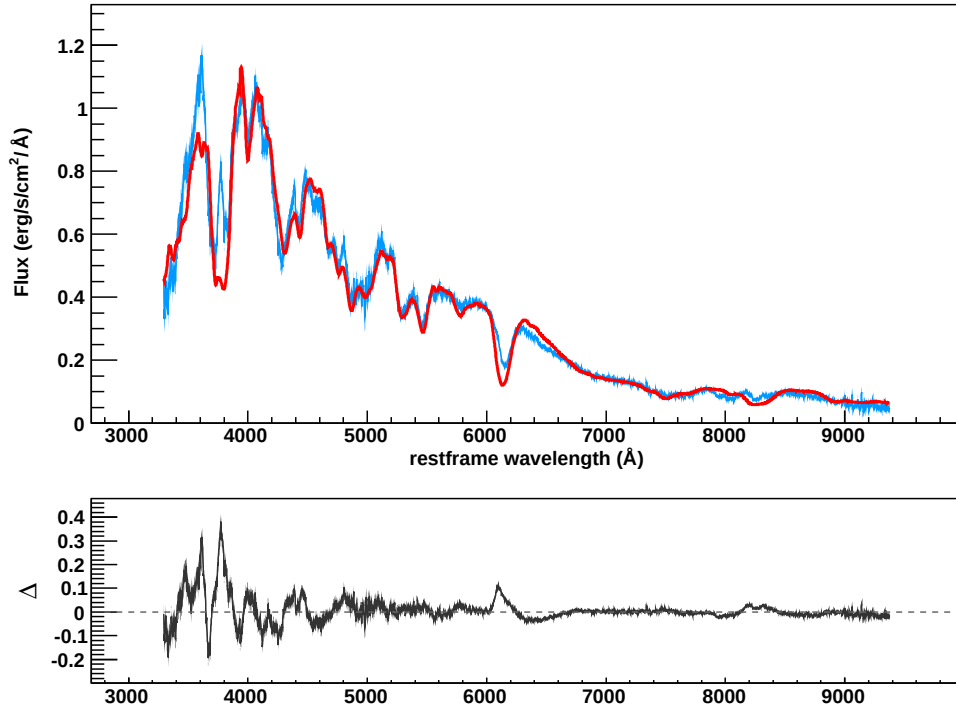
SNF20080510-001__08_139_080_003 spectrum (phase=-0.559) with PTF11kly_11_254_039_003 fit (phase=0.140741706634) with $\chi^2_v = 0.904949$

$$\begin{aligned}EW_{Ca} &= 121.42 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= -20.8948193958 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.252922434926 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -835.443037975 \\ \chi^2_v \text{ without error} &= 0.00207823534541\end{aligned}$$

SNF20070506-006__07_143_069_003

validation/SNF20070506-006/SNF20070506-006_M000059_restframe.list

$z = 0.0355$, phase = -0.0598 jours, color = 0.0488, stretch = 1.0787 ($x1 = 1.0573$)



SNF20070506-006__07_143_069_003 spectrum (phase=-0.0598) with PTF11k1y_11_254_039_003 fit
(phase=0.140741706634) with $\chi^2_v = 6.18605$

$$\begin{aligned}EW_{Ca} &= 93.8784 \\ \int_{3600\text{\AA}}^{4000\text{\AA}} F_{obs} - A * F_{mod} &= 28.1425045758 \\ F_{obs} - A * F_{mod} \text{ at } 3700\text{\AA} &= -0.194197980371 \\ V_{obs}^{Ca} - V_{mod}^{Ca} &= -3645.56962025 \\ \chi^2_v \text{ without error} &= 0.00280661449475\end{aligned}$$