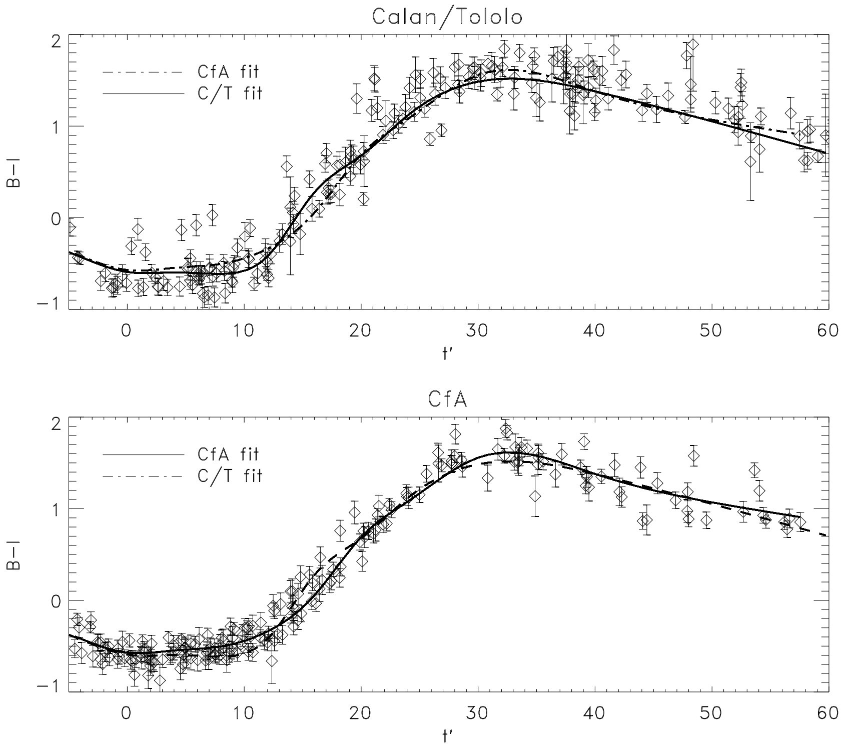

Figure 1: *B-I for the two sets of data. The solid line represent alway the curve found for the current set, while the dashed line is the curve found for the same colour of the other set.*

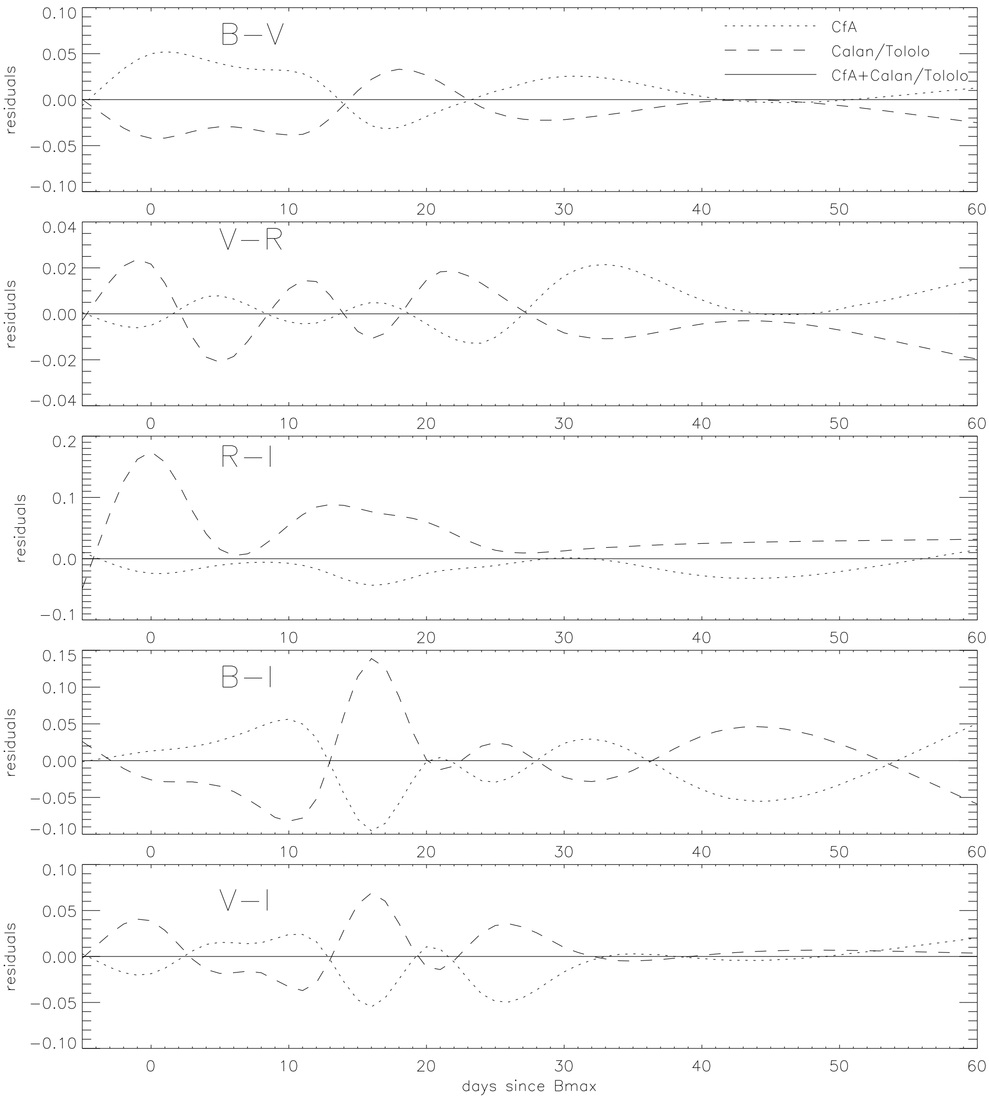

Figure 2: *Residuals of each of the models from the one builded for all the data set.*

xbin	N_k	BV^k	BVintr	dBVintr
0.0	63.	-0.118 ± 0.019	0.087	0.007
5.0	75.	0.012 ± 0.012	0.096	0.009
10.0	82.	0.144 ± 0.020	0.108	0.008
15.0	66.	0.437 ± 0.057	0.111	0.012
20.0	49.	0.718 ± 0.106	0.130	0.014
25.0	41.	0.934 ± 0.149	0.102	0.014
30.0	38.	1.058 ± 0.175	0.107	0.015
xbin	N_k	VR^k	VRintr	dVRintr
0.0	36.	-0.015 ± 0.009	0.054	0.006
5.0	41.	-0.038 ± 0.013	0.073	0.008
10.0	44.	-0.119 ± 0.020	0.050	0.006
15.0	41.	-0.094 ± 0.025	0.127	0.041
20.0	26.	0.057 ± 0.020	0.070	0.010
25.0	23.	0.184 ± 0.041	0.060	0.009
30.0	22.	0.279 ± 0.062	0.066	0.016
xbin	N_k	RI^k	RIintr	dRIintr
0.0	35.	-0.458 ± 0.081	0.113	0.011
5.0	41.	-0.521 ± 0.084	0.089	0.008
10.0	37.	-0.482 ± 0.082	0.098	0.010
15.0	37.	-0.240 ± 0.054	0.201	0.042
20.0	22.	-0.014 ± 0.031	0.141	0.018
25.0	23.	0.098 ± 0.026	0.075	0.009
30.0	21.	0.223 ± 0.055	0.095	0.013
xbin	N_k	BI^k	BIintr	dBIintr
0.0	46.	-0.594 ± 0.090	0.133	0.017
5.0	54.	-0.575 ± 0.082	0.160	0.023
10.0	53.	-0.480 ± 0.070	0.156	0.013
15.0	42.	0.073 ± 0.044	0.207	0.031
20.0	36.	0.721 ± 0.132	0.239	0.038
25.0	26.	1.203 ± 0.245	0.212	0.029
30.0	29.	1.590 ± 0.302	0.157	0.019
xbin	N_k	VI^k	VIintr	dVIintr
0.0	44.	-0.477 ± 0.074	0.096	0.012
5.0	56.	-0.587 ± 0.081	0.109	0.010
10.0	53.	-0.610 ± 0.086	0.109	0.010
15.0	44.	-0.334 ± 0.058	0.160	0.015
20.0	38.	0.028 ± 0.031	0.160	0.018
25.0	29.	0.308 ± 0.065	0.151	0.022
30.0	31.	0.515 ± 0.098	0.135	0.017

Table 1: Results of the analysis of all SNe. $xbin$ is the central value in days for each bin; N_k is the number of points for each bin; XY^k is the weighted mean value and its uncertainty; $(XY)_{intr}$ is computed as the square root of the weighted standard deviation.

B-V	0	7	15	22	30
0	1.00	$0.80^{+0.08}_{-0.13}$	$0.61^{+0.15}_{-0.21}$	$0.52^{+0.18}_{-0.24}$	$0.43^{+0.20}_{-0.26}$
7		1.00	$0.76^{+0.10}_{-0.15}$	$0.73^{+0.11}_{-0.17}$	$0.57^{+0.16}_{-0.23}$
15			1.00	$0.65^{+0.14}_{-0.20}$	$0.32^{+0.23}_{-0.28}$
22				1.00	$0.47^{+0.19}_{-0.25}$
30					1.00

V-R	0	7	15	22	30
0	1.00	$0.70^{+0.17}_{-0.30}$	$0.42^{+0.29}_{-0.42}$	$-0.05^{+0.43}_{-0.41}$	$0.25^{+0.36}_{-0.44}$
7		1.00	$0.23^{+0.36}_{-0.44}$	$0.36^{+0.32}_{-0.43}$	$0.18^{+0.38}_{-0.44}$
15			1.00	$0.58^{+0.22}_{-0.37}$	$0.34^{+0.32}_{-0.43}$
22				1.00	$0.03^{+0.41}_{-0.42}$
30					1.00

R-I	0	7	15	22	30
0	1.00	$0.75^{+0.15}_{-0.31}$	$0.61^{+0.23}_{-0.40}$	$0.57^{+0.25}_{-0.42}$	$0.43^{+0.32}_{-0.47}$
7		1.00	$0.92^{+0.05}_{-0.12}$	$0.84^{+0.10}_{-0.22}$	$0.71^{+0.17}_{-0.34}$
15			1.00	$0.88^{+0.07}_{-0.17}$	$0.76^{+0.15}_{-0.30}$
22				1.00	$0.88^{+0.07}_{-0.17}$
30					1.00

V-I	0	7	15	22	30
0	1.00	$0.83^{+0.08}_{-0.15}$	$0.81^{+0.09}_{-0.16}$	$0.80^{+0.10}_{-0.17}$	$0.56^{+0.20}_{-0.29}$
7		1.00	$0.81^{+0.09}_{-0.16}$	$0.79^{+0.10}_{-0.17}$	$0.66^{+0.16}_{-0.25}$
15			1.00	$0.90^{+0.05}_{-0.09}$	$0.59^{+0.19}_{-0.28}$
22				1.00	$0.66^{+0.16}_{-0.25}$
30					1.00

B-I	0	7	15	22	30
0	1.00	$0.35^{+0.28}_{-0.36}$	$0.39^{+0.27}_{-0.36}$	$0.19^{+0.32}_{-0.37}$	$0.14^{+0.34}_{-0.37}$
7		1.00	$0.65^{+0.17}_{-0.27}$	$0.38^{+0.27}_{-0.36}$	$0.43^{+0.25}_{-0.35}$
15			1.00	$0.73^{+0.13}_{-0.23}$	$0.29^{+0.30}_{-0.37}$
22				1.00	$0.55^{+0.21}_{-0.31}$
30					1.00

Table 2: Correlation coefficients between the different bins. The indicated *xbin* is the central value of each bin. The bin size is 7 days for all the bins. The errors indicate the 1 σ confidence level for the computed coefficients.