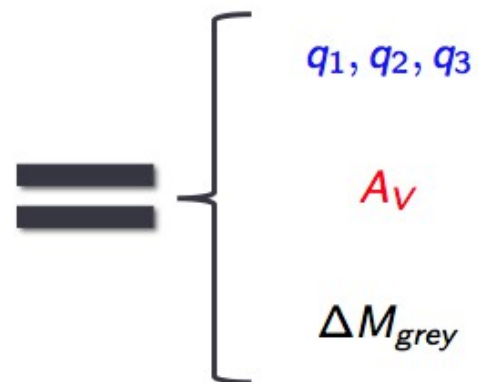
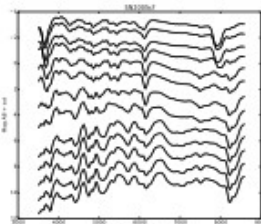
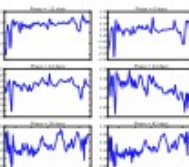
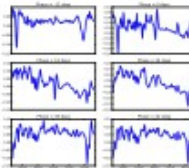
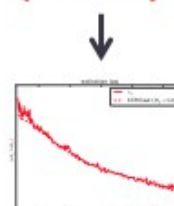
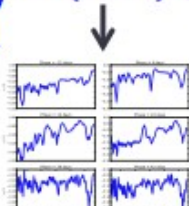
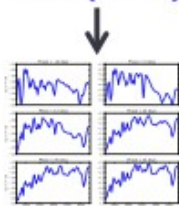


SUGAR : Leget's PhD

SUGAR results: fit SUGAR parameters

$$M(t; \lambda) = M_0(t; \lambda) + \sum_{i=1}^{i=3} \alpha_i(t; \lambda) q_i + A_V f(R_V; \lambda) + \Delta M_{grey}$$

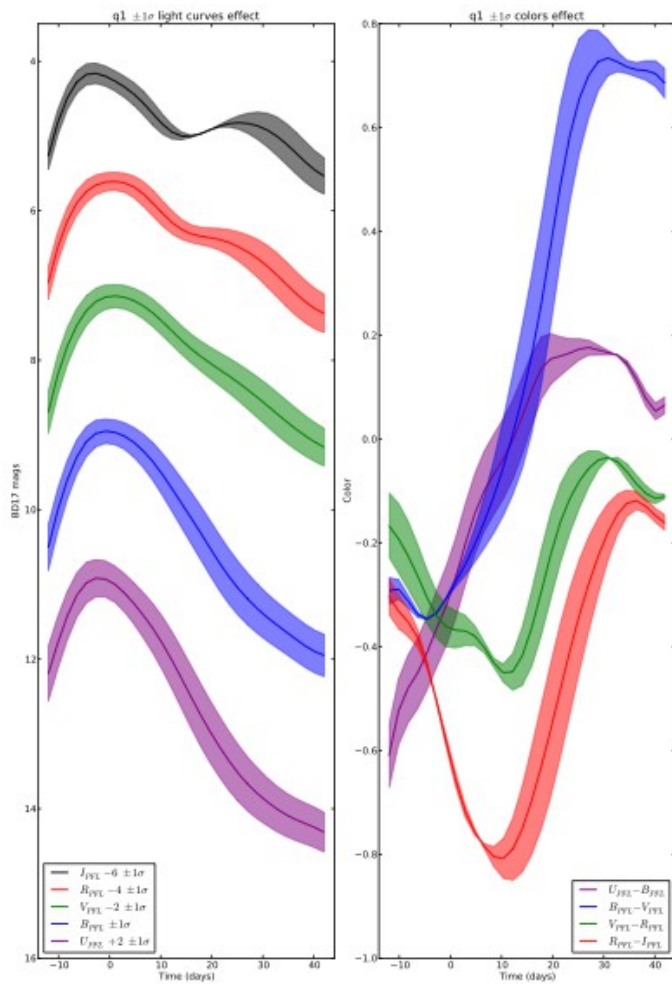


Correction scheme :

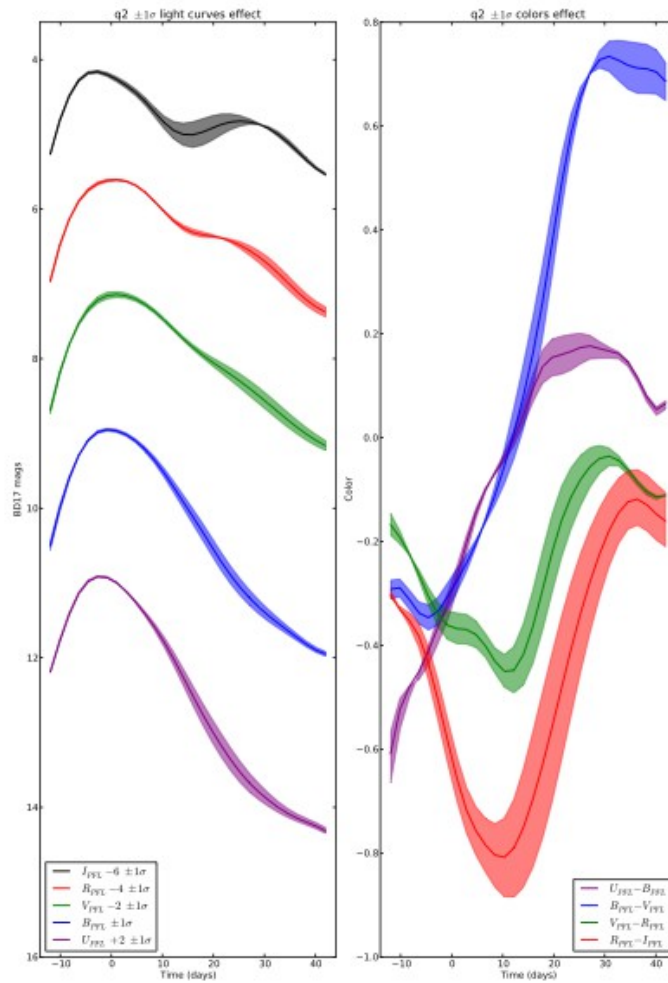
- stretch
- color
- + velocities
- + detached Ca

Improves SED fitting
And standardization

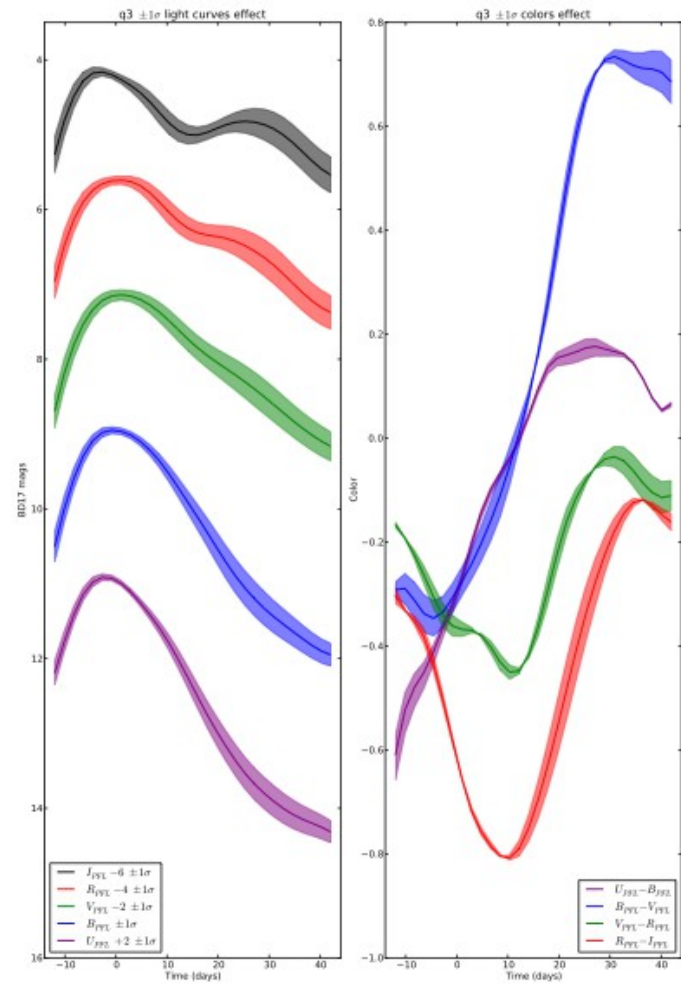
Mas step still there



Vec 1



Vec 2



Vec 3

What's next

- Paper being written
 - *S*: Still some technical work
 - Error snake of the new model
 - Link with SALT2 parametrization (Florian M2 internship)
- *u*: Interest for LSST
 - *g*: More realistic SN simulation (via SNCosmo)
 - *AR*: New LC fitter (test on JLA sample cf. Masha Pdoc)
- Improved model
 - *z*: Co-training with photo data (Oct 2017-starting PhD)