

# Session SN@LSST-France

## Discussion

### Follow-up of nearby Supernovae with LSST

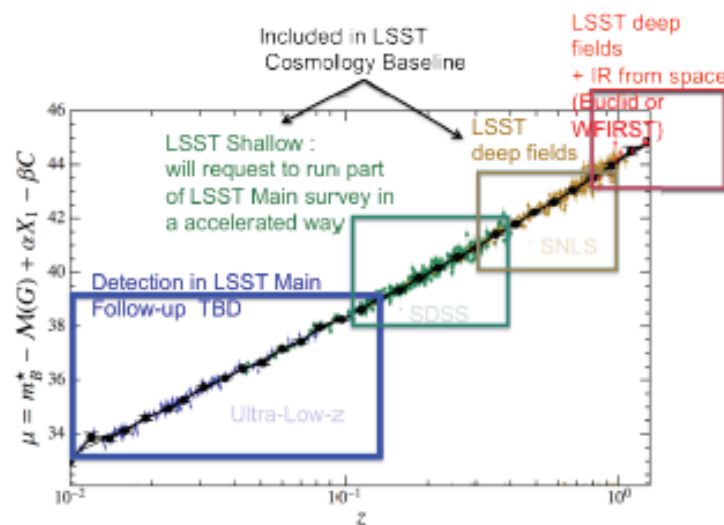
#### Supernovae collection in LSST:

- $0.6-0.5 \leq z \leq 1$  : DDFs
- $0.1 \leq z \leq 0.4-0.5$  : “rolling” cadence
- $z \leq 0.1 - 0.2$  : dedicated follow-up needed

- The (very) low redshift domain
  - is important for cosmology ( $H_0$  measurements using cepheids)
  - may only be studied with supernovae
  - is difficult (poor number of SNe Ia collected : few hundreds after ten years)

-> other experiments (ZTF, DES, PanStarrs, SNFactory) will probably not do the job before LSST.

-> LSST follow-up : photometric ? spectroscopic ?



Pierre Antilogus

Study -> White book “LSST nearby SN Ia”

->  $z < 0.05, 0.1, 0.2$

-> optimisation of distance measurements

-> possible setup

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