

ZTF France

DR2.5

DR2 SNe Ia
+Subaru SNe Ia & SNLS5yr

ztf2p3 pipeline

Scene modeling

New Inference
New "LC modeling"



H_0
ΔH_0 (RA-Dec) Inverse Distance Ladder (Ready direct distance ladder)

$(f)\sigma_8$
Likelihood Full forward Density to velocity

$w_0 - w_a$
Independent w_0 - w_a (Λ tension test) — Demonstration of new way to do SN Cosmology

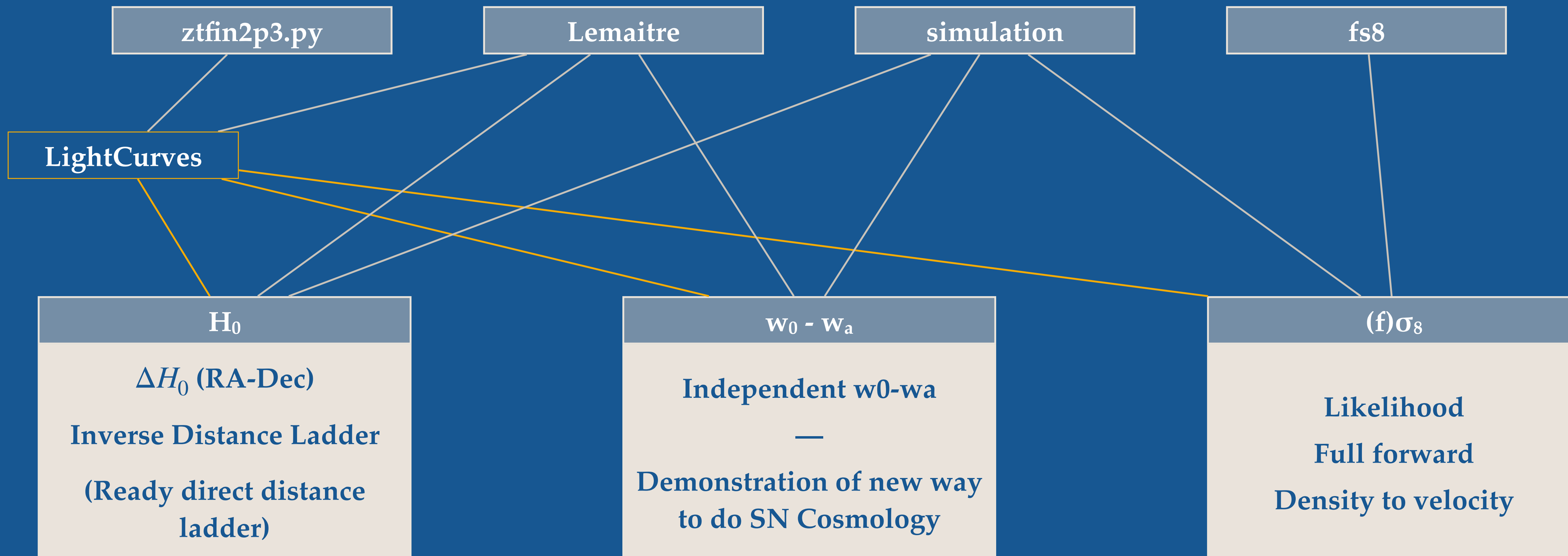
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D2.5 Papers

Simulations

ztf2p3.py

Lemaitre

LightCurves

Sensors ✓

Pocket Effect
(Bright Fatter)

—
Field #600 validation

Time Scale: Feb 2025

Camera ✓

StarFlats
Filters (incl. Gaia)

—
Aperture photometry

Time Scale: Feb 2025

Ztfimg ✓

What is happening
Prod speed
No Science concept

—
No much details

Time Scale: Feb 2025

Ubercal ↻

Self vs. Gaia vs. PS1

—
What is missing ?

Time Scale: march 2025

LC release ↻

PSF modeling
Link with all other
products.

Time Scale: march 2025

ZTF DR2.5
Lightcurves
internal release
Christmas 2024

Skysurvey ✓

ModelDag
Technical aspect
Examples

Time Scale: Janv 2025

DataChallenges ↻

Concept of work
DC1, DC2, DC3
summaries
(Incl. fs8 modeling)

Time Scale: April 2025

SN Modeling ↻

What we think the
Underlying surveys
modelling is (DC2/5)

Time Scale: June 2025

*Missing 3D in SkySurvey. This is now the top priority for the Sim development.
(Help from Paris and Marseille needed)*

NaCl ✓

DC1: Methodology
Why NaCl
NaCl (simu vs. Fit)
NaCl vs. SALTx

Time Scale: Feb 2025

Selection Functions

PeTS (SN selection)
Redshifts
Host Information
Photo-Typing

Time Scale: May 2025

Photo-Typing. To be checked

*Host Info uniformity.
Support needed*

Edris

How does this work
Why Edris
—
Demonstrated on DC2

Time Scale: June 2025

Core worry to me

Joint Calibration

ZTF | SNLS | HCS

—

*One pipeline to rule
them all*

Time Scale: July 2025

Camera ✓

StarFlats

Filters (incl. Gaia)

—

Aperture photometry

Time Scale: Feb 2025

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Christmas 2024

2025

June

2026

