

Extending the CANDIAPL Toolkit: INJECT and SPECTRA for LSST Analysis

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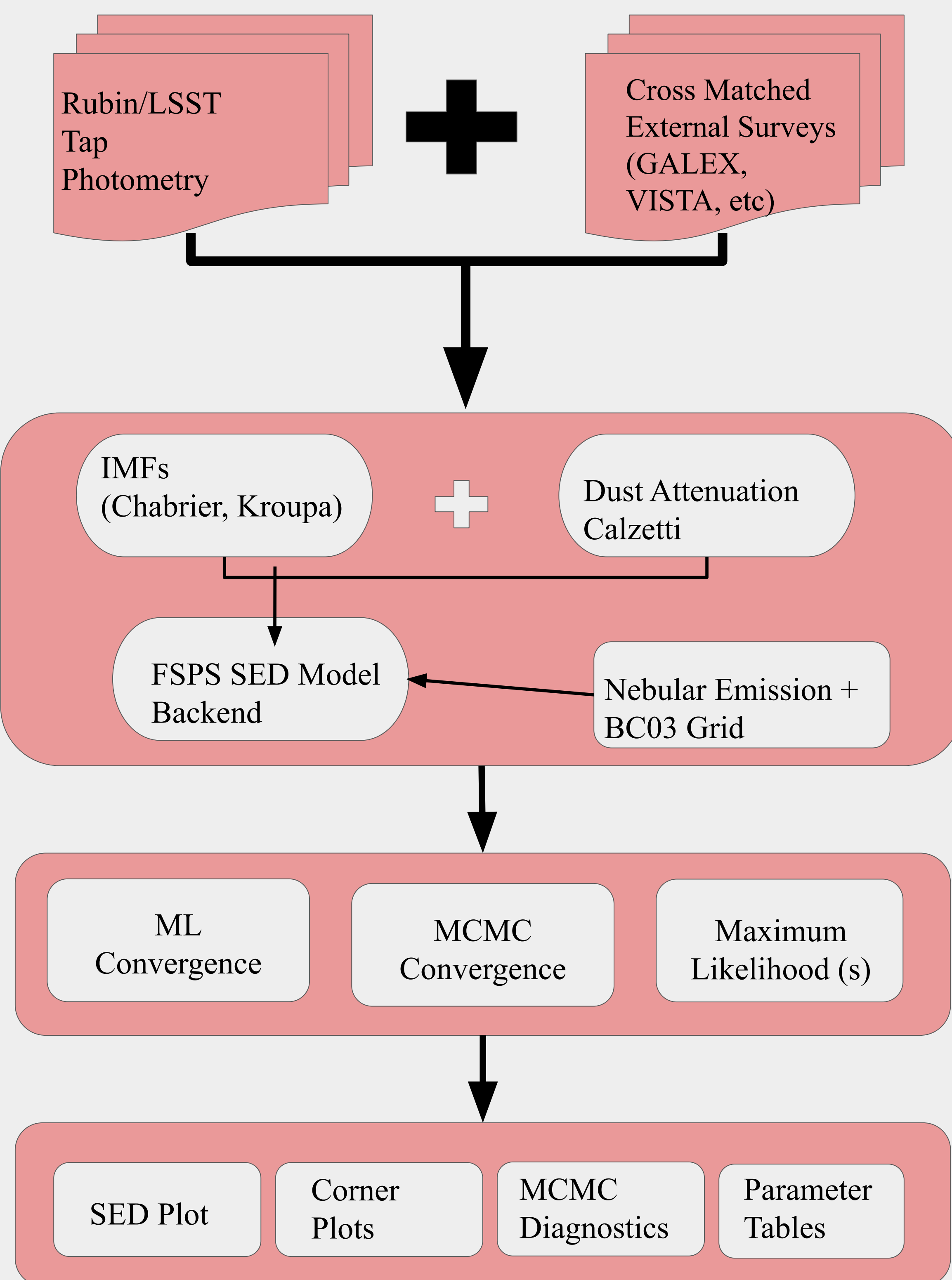


SPECTRA: SED Fitting for LSST Photometry

SED Parameter Estimation Code for Star Clusters

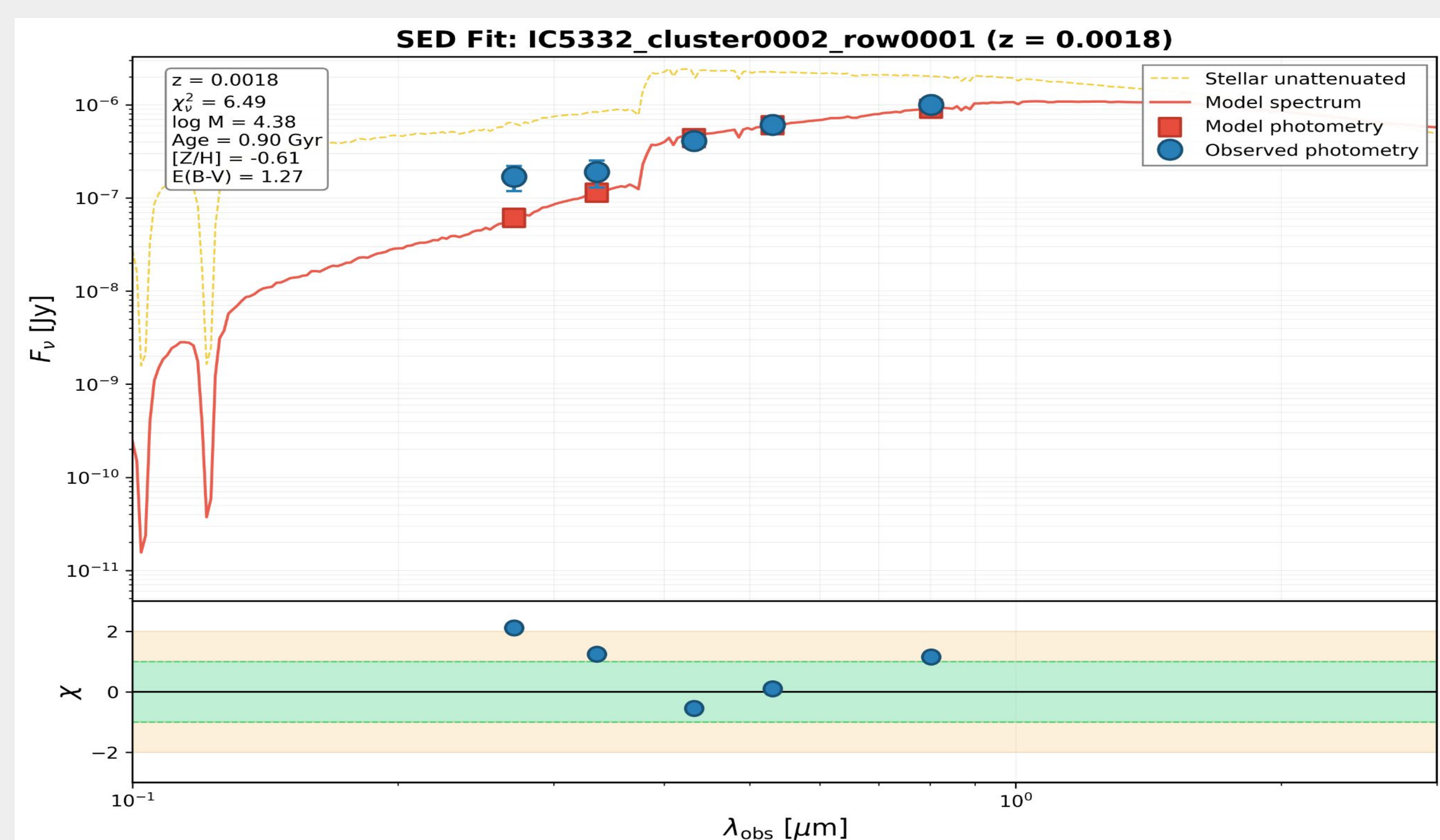
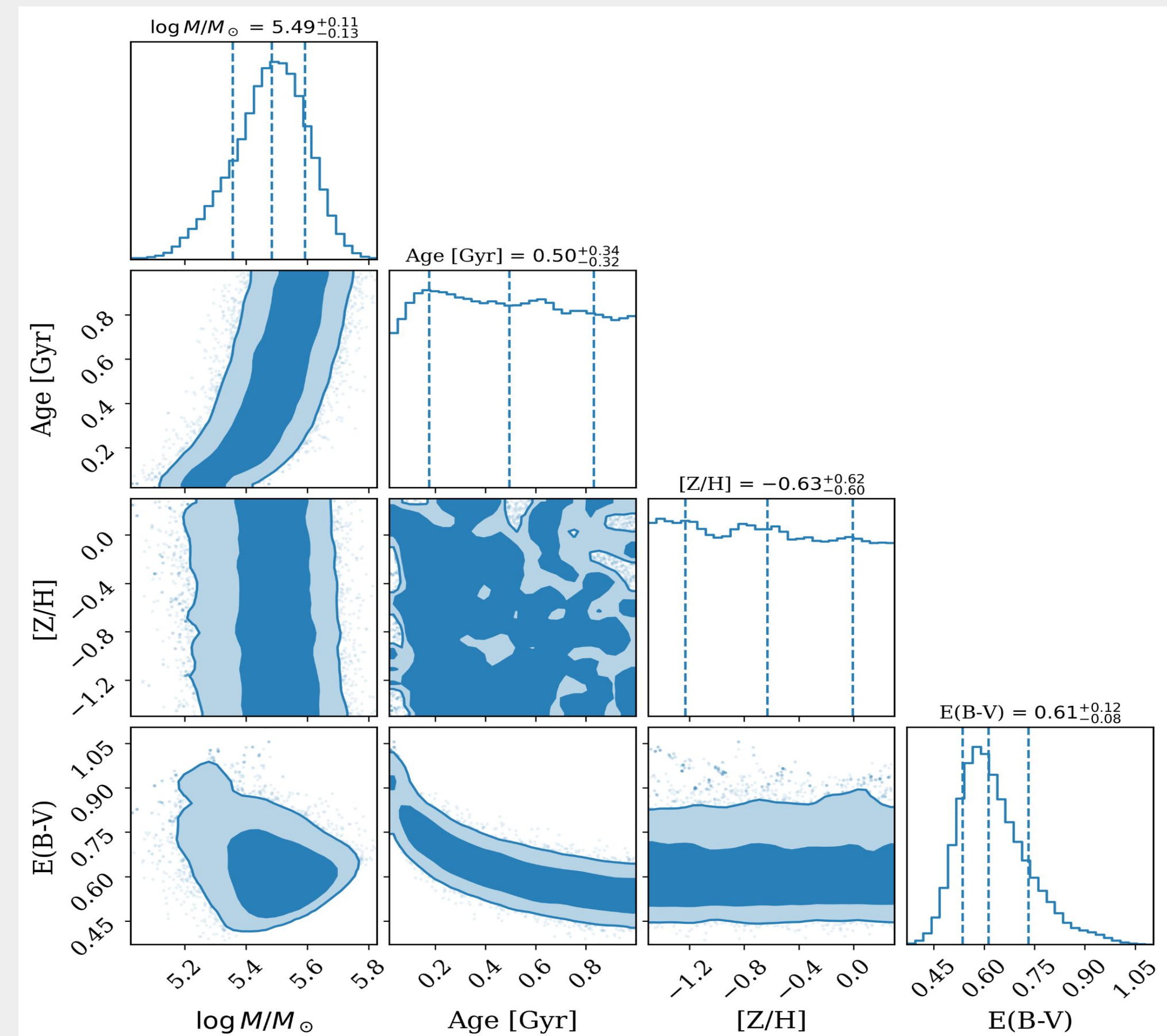
Overview:

A Python pipeline for Bayesian SED fitting of resolved star clusters (single-age stellar populations) from LSST and complementary multi-wavelength photometry.



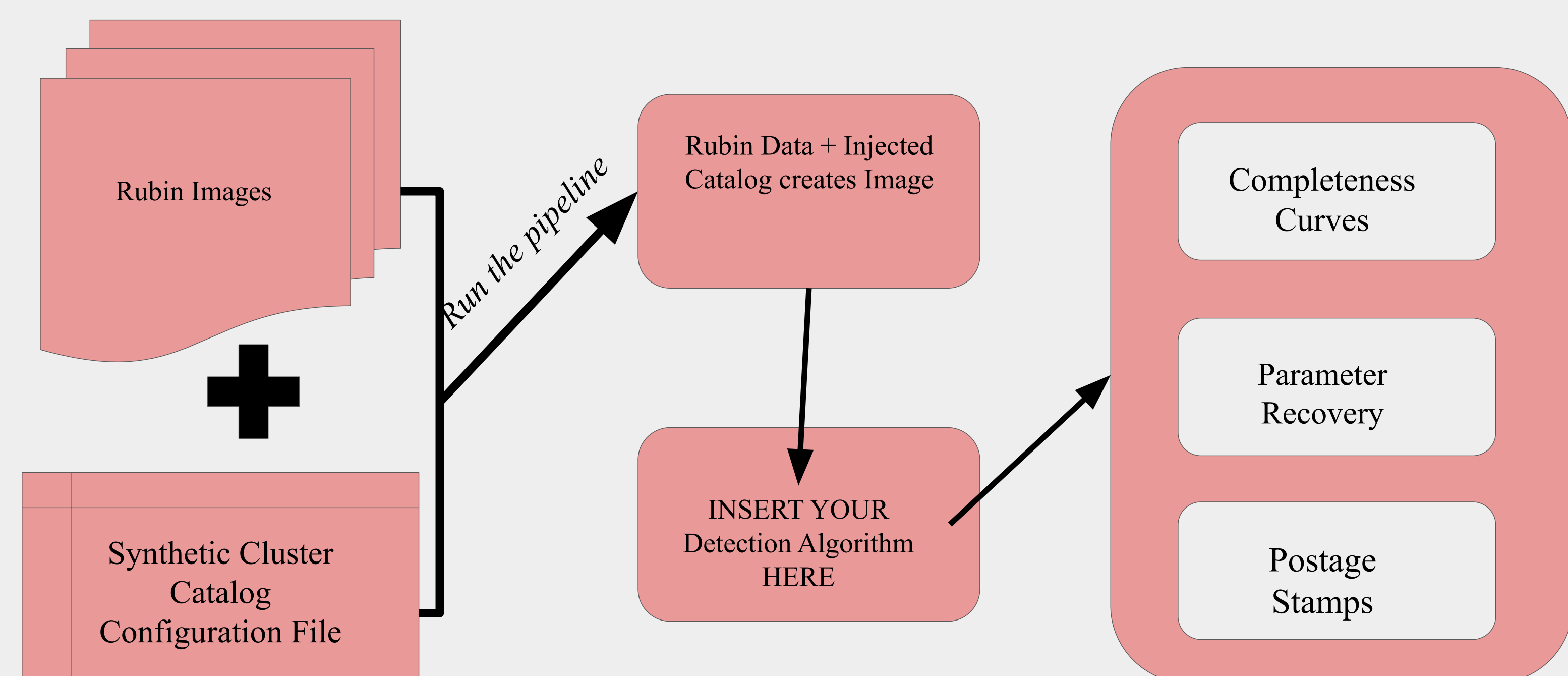
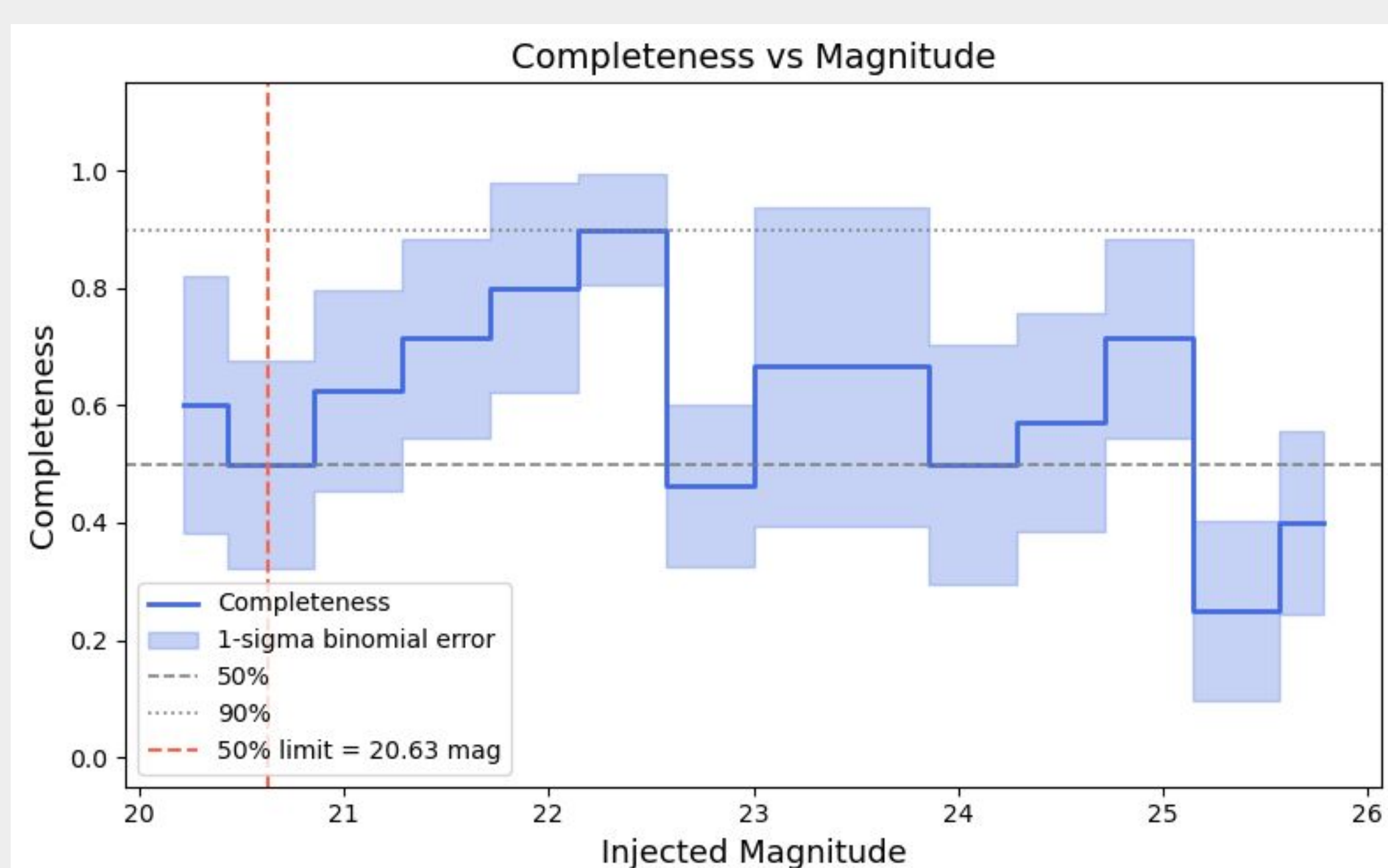
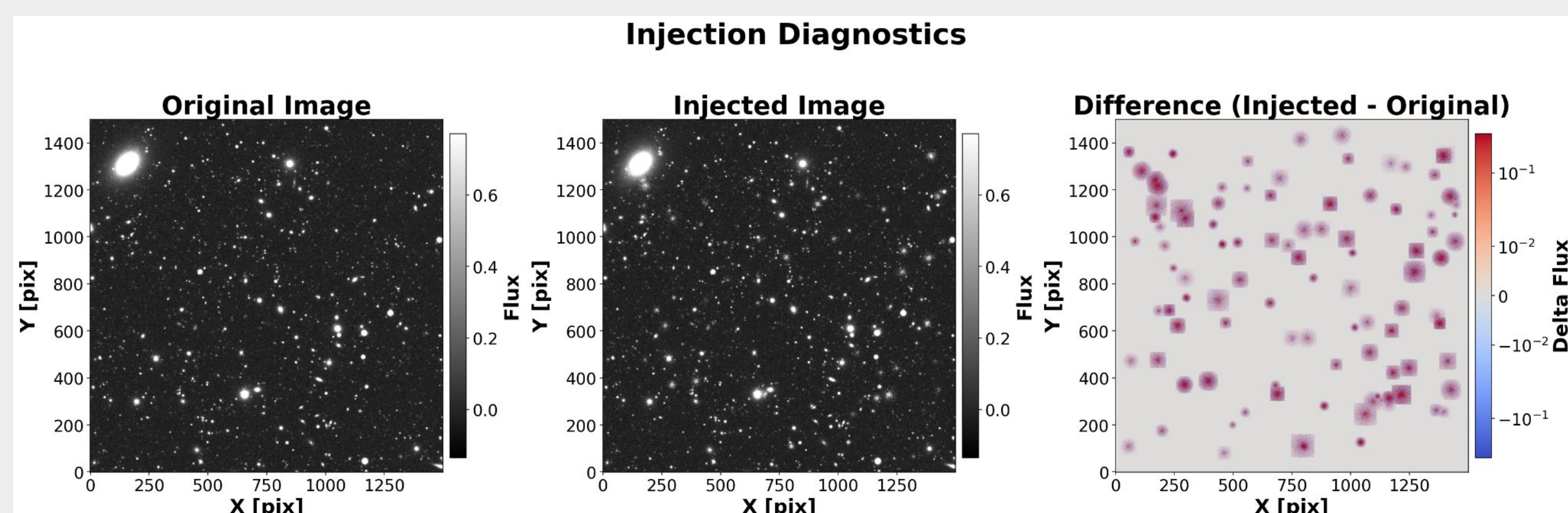
Data Outputs:

- Summary parameter tables (CSV) containing medians and 16%/84% credible intervals.
- Raw posterior samples saved via HDF5.
- Diagnostic visualization: Best-fit SED plots, corner plots (posteriors + covariances), and MCMC chain trace plots.



INJECT: Synthetic Source Injection Pipeline

Overview: A python pipeline that injects star clusters into real LSST exposures, runs your detection algorithm on the result, and summarizes recovery parameters.



CANDIAPL Collaboration

CanDIAPL (Canadian Data-Intensive Astrophysics Platform) is a CFI-funded project, run with the Canadian Astronomy Data Centre (CADC), that builds cloud computing power and software tools to handle data from the Vera C. Rubin telescope, SKA pathfinders and more.

Come see a live demo at the booth, and scan the QR code to learn more and send us your suggestions!

