

## **NIFTy - Numerical information field theory**

*Submitter: Philipp Frank*

*Author: Philipp Frank, Torsten Ensslin*

Numerical Information Field Theory (NIFTy) is a python software library that allows to build and implement probabilistic forward models and provides approximate solution algorithms for statistical inference problems involving fields. Its main domain of application evolves around reconstruction problems where the underlying quantities of interest are fields (functions of space, time and/or frequency) that have to be recovered from noisy and incomplete observational data.