IRFU : Institut de recherche sur les lois fondamentales de l'univers

Saclay

DAp/LCS

Non linear matter power spectrum and machine learning

Spécialité Astrophysique

Niveau d'étude Bac+5

Formation Master 2

Unité d'accueil DAp/LCS

Candidature avant le 10/04/2020

Durée 6 mois

Poursuite possible en thèse oui

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Autre lien https://www.cosmostat.org/jobs/ml_nonlinear

Résumé

This internship is meant to use and compare different machine learning methods in order
to check which one better performs in estimating the matter power spectrum in the non-linear regime.

Sujet détaillé

Work builds on preliminary results
and codes developed within the CosmoStat group.
The internship will take place within the research group CosmoStat, within the Astrophysics Department (DAp) under the supervision of Valeria Pettorino, Santiago Casas, and Jean-Luc Starck.

Mots clés

Compétences

Logiciels

Non linear matter power spectrum and machine learning

Summary

This internship is meant to use and compare different machine learning methods in order to check which one better performs in estimating the matter power spectrum in the non-linear regime.

Full description

The internship will take place within the research group CosmoStat, within the Astrophysics Department (DAp) under the supervision of Valeria Pettorino, Santiago Casas, and Jean-Luc Starck.

Keywords

Machine Learning

Skills

Softwares