Luca Broggi

Researcher in Astrophysics

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Key Research Expertises

Loss-cone theory

Galactic dynamics

Origin of TDEs & EMRIs

Key Soft Skills

Mediation

Autonomy

Group Cooperation

Technical Skills

Julia

MATLAB

Python

C

Linux

Languages

English

Italian

German

Profile

I am a young astrophysicist with a background in Computational and Theoretical Physics. I am becoming an expert in loss-cone theory and its application for determining rates and properties of tidal disruptions of stars and extreme mass ratio inspirals. H-index 2 (NASA/ADS).

Work Experience

Postdoctoral researcher   **Nov 2023 -**
Università degli Studi di Milano-Bicocca
Group: **prof. Alberto Sesana**

Teaching assistant   **2021, 2023**
BSc in Physics, Università degli Studi di Milano-Bicocca
Introduction to IT for Physicists.

Education

PhD in Physics and Astronomy   **Nov 2020 - Oct 2023**
Università degli Studi di Milano-Bicocca
Thesis with **prof. Alberto Sesana**, **prof. Massimo Dotti** *Dynamics of tidal disruptions and extreme mass ratio inspirals in galactic nuclei*. Cum laude.

MSc in Computational and Theoretical Physics   **Oct 2017 - Oct 2020**
Università degli Studi di Milano-Bicocca
Thesis with **prof. Claudio Destri**, *Maximum entropy and violent relaxation in self-gravitating spherical systems*. 110/110 cum laude.

BSc in Computational and Theoretical Physics   **Oct 2014 - Oct 2017**
Università degli Studi di Milano-Bicocca
Thesis with **prof. Claudio Destri**, *Hooke vs Kepler law in Classical and Quantum Mechanics*. 110/110 cum laude.

Publications

The complete publication list is available at the following NASA/ADS library

My code jFP is available here