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CRITICAL POINTS, MULTIPLE TESTING AND POINT SOURCE DETECTION FOR COSMOLOGICAL DATA

A Hacking day at the Department of Mathematics

Over the last two decades, Cosmology has experienced a sort of revolution, where a flood of data of unprecedented accuracy has become available by means of a number of different ground-based and satellite experiments. The analysis of these maps entails a number of extremely interesting mathematical and statistical questions, mostly related to the geometry of spherical random fields. In this talk, we shall be concerned in particular with issues related to detection of point sources (Galaxies) in Cosmic Microwave Background radiation (CMB) Data; we shall discuss the connections with spherical wavelets, distribution of critical points for spherical random fields, and multiple testing procedures.

INFORMATION:

<http://datascience.maths.unitn.it/events/cd2020/>

SCHEDULE

Thursday 2020/06/25 10:00 - 12.00

DETAILS

- Venue: WEBINAR
- Language: English
- Admission: credentials will be sent to the participants the day before of the event
- How to apply: send an email to Claudio Agostinelli (claudio.agostinelli@unitn.it)



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