Logistic information

Michele Moresco
Dipartimento di Fisica e Astronomia “Augusto RIghi” – Università di Bologna

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Ministero dell'Università e della Ricerca
Italiadomani PIANO NAZIONALE DI RIPRESA E RESILIENZA
ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI FISICA E ASTRONOMIA “AUGUSTO RIGHI”

General information

Indico link for the meeting: https://indico.ict.inaf.it/event/3125/

It is possible to use the rooms in the school for work,discussion, etc...

On the free day, it will be possible to come to the school for collaborative work

Social activities:

- **hiking/walk in the mountains in the free day** ⟶ get in touch with Massimo and Ilaria

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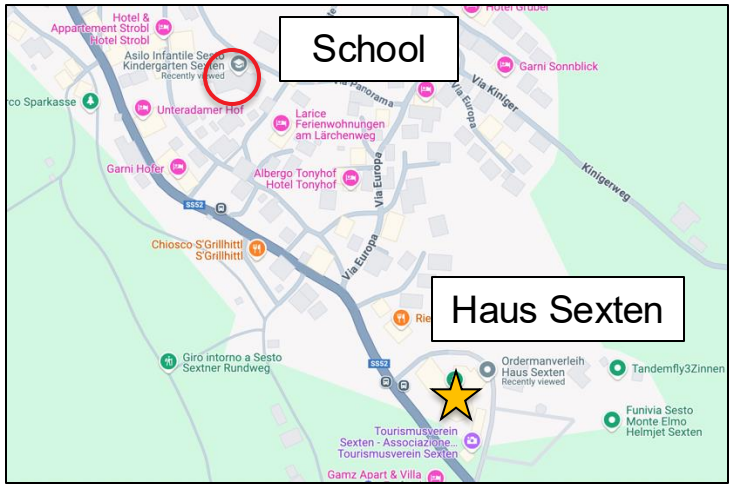
- **Nocturnal excursion with torchlights in the Valley Innerfeld.** Nocturnal walk with torchlights through the Valley Innerfeldtal/Val Campo di Dentro to the restaurant “alte säge”, featuring a grappa tasting and ending with sangria or mulled wine (if it’s cold), accompanied by live Tyrolean music. The event starts at **Tuesday 15th July 9 at:30 PM in front of Haus Sexten**, and we’ll return to the same spot. Participation is completely free!



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Where to eat

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Timetable (might swap depending on weather)

	lunedi'	martedi'	mercoledi	giovedi'	venerdi'
	Observations	LSS analysis	free day / collaboration work	Alternative Probes	Simulations and Machine learning for LSS
09.00-9.30		Gil-Marin (The Full-Shape analayis of the Dark Energy Spectroscopic Instrument data release 1)		Horovitz (Field Level Inference with Fully Differentiable Hydrodynamical Physics)	
09.30-10.00		Karcher (Towards an optimal marked correlation function analysis for the detection of modified gravity)		Nguyen (Field-level inference and the path towards percent-level constraint on growth of structure from spectroscopic surveys)	
10.00-10.30	Moresco (introduction)	Maragliano (CNN-Enhanced Zel'dovich Reconstruction for BAO analysis in Large-Scale Structure Surveys)		Simon-Onfroy (Benchmarking field-level inference from galaxy surveys and its application to primordial non-Gaussianity analysis)	Panel discussion
10.30-11.00	coffee break	coffee break		coffee break	coffee break
11.00-11.30	Percival (Cosmological results from DESI)	Szapudi (Indicator Power Spectra)		Villaescusa Navarro (Cosmology in the era of AI agents)	Panel discussion
11.30-12.00	Shi (PFS SSP Cosmology - Survey and Target Selection)	Ferrari (The Linear Point cosmological standard ruler: tests and applications to the Euclid mission)		Valogiannis (Going beyond the power spectrum: an analysis of BOSS & DESI galaxy clustering using the wavelet scattering transform)	end of the conference
12.00-12.30	Magliocchetti (MOONRISE: the main MOONS GTO extragactic survey)	Cai (Detection of cosmological dipoles aligned with transverse peculiar velocities)		Romanello (The clustering of dark matter haloes in alternative cosmological models)	
12.30-13.00	Cristiani (Finding the brightest QSOs with QUBRICS)	Moresco (New frontiers for the 3PCF)		Chebat (Profile likelihoods for the neutrino mass, using latest cosmological datasets)	
13.00-14.30	lunch break	lunch break		lunch break	
14.30-15.00	Favole (Modelling the distribution of galaxy multi-tracers through cosmic time)	Slepian (Measuring higher-order correlation functions in current and future galaxy surveys)		Carbone (Perspective on simulations for future cosmological analysis)	
15.00-15.30	Risso (Observational Systematics in Euclid)	Guidi (Cosmology from Large Scale full-shape analyses combining 2PCF and 3PCF)		Kovaks (Cosmological probes with cosmic voids: advanced modelling and the latest results)	
15.30-16.00	Passalaqua (Evaluating Systematic Effects Using Simulations and Real Data in Euclid)	Veropalumbo (Consistent Clustering Analysis in Configuration and Fourier Space)		Degni (Extracting cosmological information from the shape of cosmic voids)	
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observations

LSS analysis

Higher-order correlation functions

Alternative probes and simulations

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collaborative work

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