

GECO Cosmology Circle

geco_cosmo@lam.fr

- Measuring cosmological parameters
- Cosmic homogeneity and primordial non-gaussianity
- Gravitational wave astronomy
- Dark matter



BAO

Redshift space distortions

CMB

Galaxy clusters

Lensing

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- Number of subscribers: 32
- Wiki page: <http://wiki.lam.fr/geco/CosmoDiscussionCircle>
- Coordinator: Abhishek Maniyar
- Meeting coordinates: [Tuesdays (once every two weeks) 15:00-16:00, Mistral/ Tramontane, 0, 0]
- Meeting format: news & information, paper discussions, project presentations, open discussions
- Number of meetings: 9
- Average attendance: around 8 (between 5-13 per meeting)

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Functioning

- News and information
- Discussions on recent interesting papers (cosmo-contributor of the week)
- Wide range of topics

Things which can be improved

- Lack of suggestions for topics/papers (cosmo-pool)
- Lack of participation from new students

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Some interesting discussions from last semester

- Recent results on neutrino mass constrains from BOSS and XQ-100 Ly-alpha forest power spectra
- Cosmic homogeneity tests from BOSS DR-12 data
- Cosmology from intensity mapping of atomic and molecular lines
- Future CMB challenges, experiments and hurdles
- Machine learning application in the field of lensing
- Back-reaction in cosmology

Thank you!