## Progress on Old and New Themes in cosmology (PONT) 2014



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## **Consistency relations for large scale structure**

Wednesday 16 April 2014 17:30 (10 minutes)

Consistency relations for large scale structure are relations between an n-point and an (n+1)-point correlation function of the matter or galaxy distribution, in the limit in which one of the momenta is much smaller than the others. I will show that these relations are non perturbative in the small modes. Moreover, since they are consequence of the Equivalence Principle, their violation can be used to probe the presence of extra forces in the universe, using the next generation of galaxy surveys.

Presenter: GLEYZES, Jérôme

Session Classification: Afternoon session