



量子物理学・ナノサイエンス第 269 回セミナー

**【開催日・場所変更】**

**Non-Gaussian CMB and LSS statistics  
beyond polyspectra**

**講師** : **Professor Gonzalo Palma**  
**Universidad de Chile, Chile**

**日程** : **10月18日(金) 16:00-18:00**

**場所** : **本館1階 156 物理学系輪講室**

**概要**

I will review recent progress to understand the generation of non-Gaussianity (NG) in the distribution of primordial curvature perturbations (those responsible for the cosmic microwave background (CMB) anisotropies and our universe's large scale structure (LSS)). I will show that in multi-field models of inflation, the quantum fluctuations of fields other than the inflaton may have probed the full structure of the inflationary landscape potential, inducing a type of local NG that cannot be fully characterized by 3- or 4-point correlation functions. I will discuss various strategies (beyond standard polyspectra) to search for this novel class of primordial NG with the help of future cosmological data.

**連絡教員** 物理学系 山口 昌英 (内線 2385)