

# SEMPARIS – Séminaires en région parisienne

<http://string.lpthe.jussieu.fr/semparis/>

## Seminar of the theory group of APC

**Mardi 23 Mai 2017, 14 :00**

APC, 454 A - Valentin

Domaines : hep-th

Titre : *Carroll Symmetry, Gravitational Memory and Soft Gravitons*

Orateur : **Gary Gibbons ( Cambridge University )**

Résumé : *In the first part of my talk I will discuss the notion of relativity principle, kinematic algebras, the classification of Leblond and Bacry I will define the Carroll group and its extensions. I will give Applications to very special Relativity String theory and the BMS algebras. In the second part I will discuss plane gravitational waves and how the a subgroup of the Carroll group acts and how this can be used illuminate the currently fashionable topics of gravitational memory and soft gravitons. The talk is aimed at a general audience with a background in Mathematical Physics.*

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