Organisé conjointement par
CPHT-École Polytechnique et Groupe Théorie IPN Orsay

SÉMINAIRE de PHYSIQUE des PARTICULES

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The nucleon axial charge from Lattice QCD

Résumé :
The axial coupling of the nucleon, gA, is a simple but fundamental quantity in particle physics. While gA is very well-measured experimentally, its theoretical prediction has been a long-standing puzzle: the lattice determinations being systematically below the experimental value. If we want to understand nuclear physics from first principle, it is crucial to solve this puzzle. I will present our recent computation performed with CalLat (California Lattice) based on a Feynman-Hellmann approach. Our result is in perfect agreement with the experimental value with an uncertainty of less than 2

Jeudi 25 Janvier 2018

11:00

Salle A201