

# Service de Physique Nucléaire



## Séminaire

le vendredi 15 février 2012 à 11h00

CEA Saclay, Orme des Merisiers, Bât. 703, Salle 135

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### Lattice QCD : a nonperturbative bridge from pion mass to the strong coupling at tau and $Z^0$ masses

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I will report on how, from lattice QCD simulations including two light degenerate and two heavy quark flavours in the sea, a reliable estimate for the strong running coupling at tau and  $Z^0$  mass scales can be derived with the pion mass as a crucial ingredient taken from experiment.

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*Le café sera servi 10 minutes avant*

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