

Université Paris-Saclay  
IJCLab  
(Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)  
Bât. 100, F-91405 Orsay

## Séminaire de Physique Nucléaire Théorique

### Molecular hadrons from the EFT perspective

**Manuel Pavon Valderrama**

*(Beihang University, Chin)*

The discovery of a plethora of new heavy hadrons in experimental facilities during the last few years calls for their theoretical interpretation. While many of them are standard three-quark baryons and quark-antiquark mesons, others do not fit this explanation and are suspected to be exotic. A few might be "molecular states", i.e. composite hadrons that are bound states of two hadrons and thus analogous to the deuteron in nuclear physics. Here I will present a brief overview of the most promising molecular candidates and the issues related to them from the effective field theory perspective. In particular I will address the problem of how can we know whether a state is molecular, what are probable molecular interpretations of a few of these states and what concrete predictions can be made about them.

**Jeudi 2 Mai 2024**

**14 :00**

**IJCLab, Bât. 100, Salle A018**