

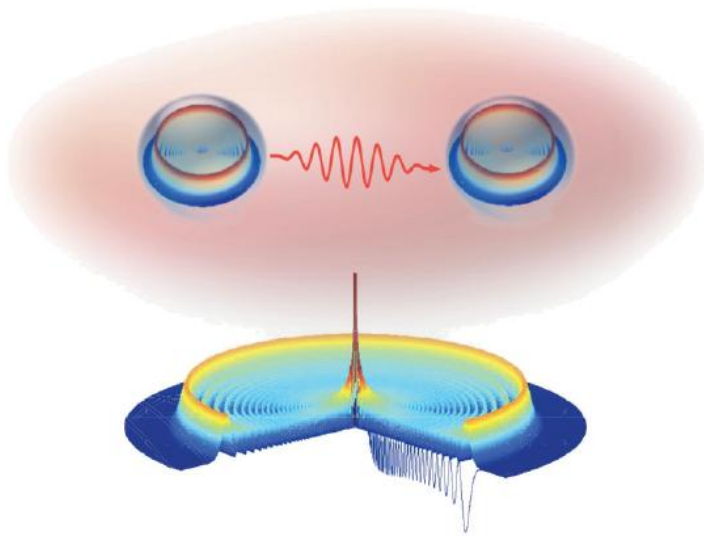


COLLOQUIUM AIMÉ COTTON

# 66 Ultracold Rydberg Physics 99

Robin CÔTÉ

University of Connecticut



**Jeudi 14**  
décembre 2017  
à 14h30  
À l'Amphithéâtre Blandin  
bât. 510, LPS  
Université Paris-Sud



## Résumé :

We briefly review the properties of Rydberg atoms, and explore how their characteristics can be used in a variety of applications, from quantum information, to the exploration of exotic atomic and molecular systems. In particular, we discuss how trilobite-like Rydberg states of dimers, trimers, tetramers, etc., could be used to probe the correlation function of ultracold gases. In addition, we show that trimer trilobite states could shed light on Efimov states, those exotic three-body bound states existing even if the three individual pairs are not bound. We also describe potential experimental signatures.

Le séminaire est organisé par le laboratoire Aimé Cotton.  
Il sera suivi d'une collation.

