



**Séminaire organisé par**

**AIM & Le service d'Astrophysique  
CEA/DSM/Irfu**



**Irfu**

## **EXPLORING MOLECULAR COMPLEXITY WITH ALMA (EMOCA)**

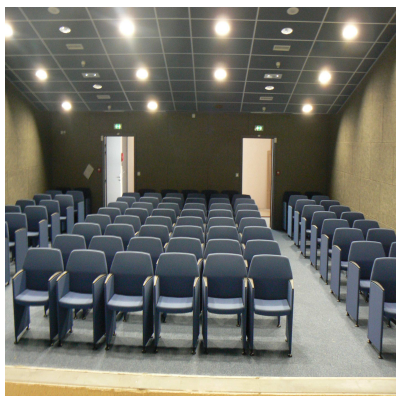
**ARNAUD BELLOCHE**

(MPIfR Bonn, Germany)

One of the key sites to search for new complex organic molecules in the interstellar medium (ISM) has turned out to be the star-forming, hot, molecular cloud core Sgr B2(N). I will present the first results of the EMOCA survey conducted toward this source with ALMA in its Cycles 0 and 1. This spectral line survey covers the 3 mm atmospheric window and aims at deciphering the molecular content of Sgr B2(N) in order to test the predictions of state-of-the-art astrochemical numerical simulations and to gain insight into the chemical processes at work in the ISM. I will report on the first detection of a branched alkyl molecule in the ISM. I will discuss the implications of this detection in terms of interstellar chemistry and its possible connection to the complex organic molecules found in meteorites.

**mardi 27 janvier 2015**

**10h00 Salle Galilée bât 713 - Orme des Merisiers**



**Le petit-déjeuner précèdera le séminaire**

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