

Service d'Astrophysique  
SÉMINAIRE

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Mardi 27/01/2015, 10h00-11h00

CEA Saclay, Orme des Merisiers Bat 713, salle de séminaires Galilée

EXPLORING MOLECULAR COMPLEXITY WITH  
ALMA (EMOCA)

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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.

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Le cafe sera servi 10 minutes avant

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