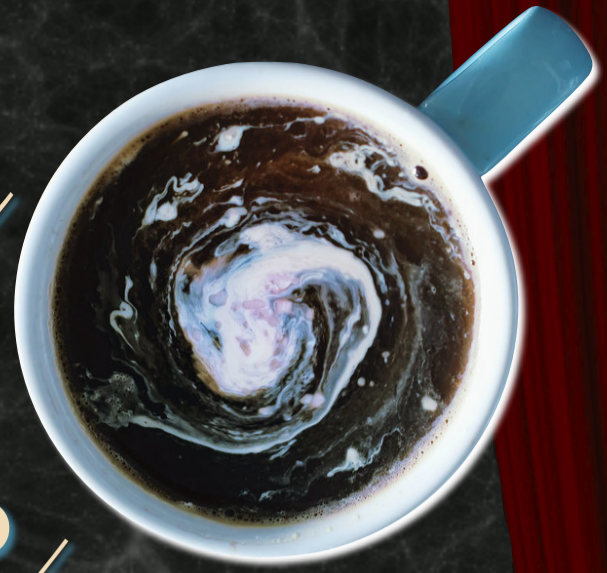


# Caffe Lattes



COSMOLOGICAL ANALYSES FEATURING  
GALACTIC FOREGROUND EMISSION

*Lattes, France*  
May 11<sup>th</sup>-15<sup>th</sup>, 2020

## *Synopsis*

Galactic foreground removal is an increasing challenge in different observational contexts in the era of precision cosmology. We bring scientists from cosmology, Galactic astrophysics and mathematics together to gather complementary understanding and know-how towards this goal

## *Cast*

**COSMOLOGY:** primordial Universe from CMB  $B$ -modes and spectral distortions, cosmic dawn & reionization from EoR HI, large scale structures from weak lensing and line intensity mapping, cosmic magnetism from radio and ultra high energy cosmic rays

**GALACTIC ASTROPHYSICS:** dust emission and extinction polarization, Galactic magnetism, 3D structure of the ISM, the multi-phase dynamical ISM

**MATHEMATICAL METHODS:** component separation, modelling of non-Gaussian data, 3D inversion, Bayesian inference, machine learning

## *Décor*

The conference is held inside the inspiring **Théâtre Jacques Cœur** in the Mediterranean city of **Lattes**, close to Montpellier, in the South of France

## *Stage managers (LOC)*

VINCENT GUILLET, IAS, Orsay / LUPM, Montpellier, France  
ALEXANDRE MARCOWITH, LUPM, Montpellier, France  
JONATHAN AUMONT, IRAP, Toulouse, France  
FRANÇOIS BOULANGER, ENS / LRA, Paris, France  
MARC-ANTOINE MIVILLE-DESCHÊNES, AIM / CEA, Saclay, France

## *Mise en scène (SOC)*

FRANÇOIS BOULANGER, ENS / LRA, Paris, France, **co-chair**  
VINCENT GUILLET, IAS, Orsay / LUPM, Montpellier, France, **co-chair**  
JONATHAN AUMONT, IRAP, Toulouse, France  
JO DUNKLEY, Princeton University, Princeton, USA  
MARIJKE HAVERKORN, Radboud University, Nijmegen, Netherlands  
THIEM HOANG, KASI, Daejeon, South Korea  
VIBOR JELIĆ, Ruđer Bošković Institute, Zagreb, Croatia  
GUILAINE LAGACHE, LAM, Marseille, France  
ALEXANDRE MARCOWITH, LUPM, Montpellier, France  
BRICE MÉNARD, John Hopkins University, Baltimore, USA  
MARC-ANTOINE MIVILLE-DESCHÊNES, AIM / CEA, Saclay, France  
BENJAMIN WANDEL, IAP, Paris, France