

# Probing Quantum Spacetime with Astrophysical Sources : the CTA era and beyond

29 and 30 november 2017

LPNHE, Paris, France

## Organizing Comity

J. Bolmont (LPNHE), A. Jacholkowska (LPNHE), F. Daigne (IAP), H. Sol (LUTH),  
J.F. Glicenstein (CEA/IRFU)

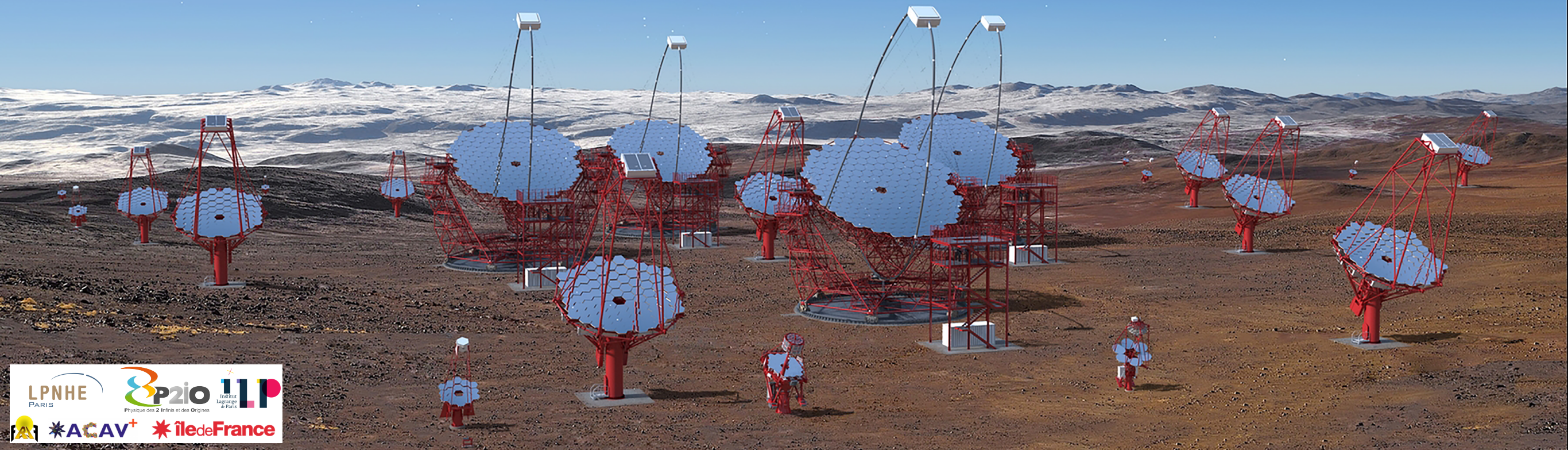
## Invited Speakers

G. Amelino-Camelia (Sapienza University, Roma), J.-L. Atteia (IRAP, Toulouse),  
B. Baret (APC, Paris), J. Biteau (IPNO, Orsay), D. Götz (CEA/SAP, Saclay),  
F. Piron (LUPM, Montpellier), L. Rolland (LAPP, Annecy),  
M. Settimo (Subatech, Nantes), F. Stecker (NASA/GSFC, USA)



Information and Registration (free of charge)

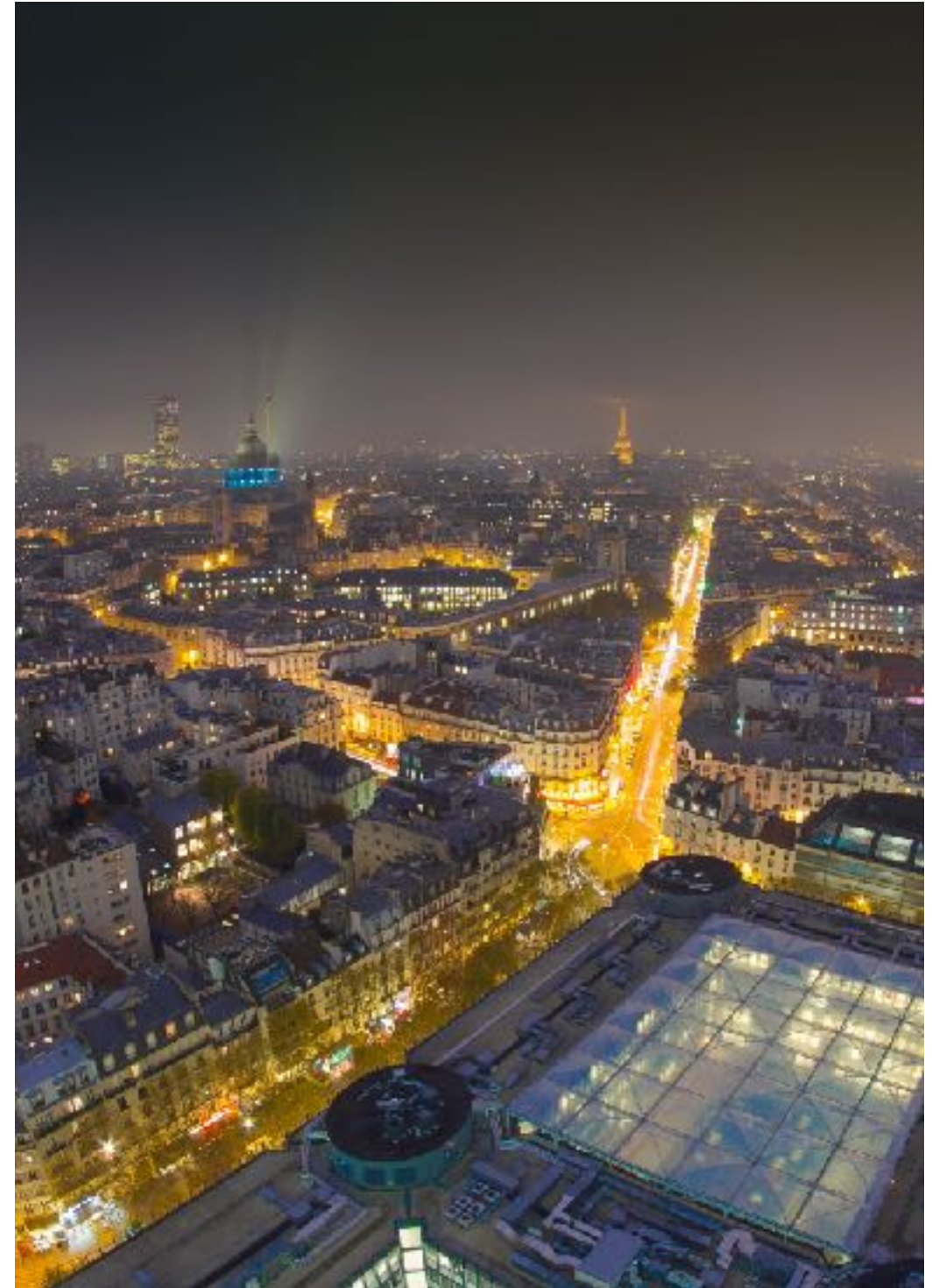
<https://indico.in2p3.fr/event/13021/>





## WELCOME IN PARIS !

- ▶ LPNHE : Laboratoire de Physique Nucléaire et de Hautes Energies
- ▶ Focus on experimental physics with
  - ▶ LHC experiments : ATLAS, LHCb
  - ▶ Astroparticle experiments : Auger, H.E.S.S., CTA
  - ▶ Cosmology experiments : SN, LSST, eBOSS/DESI





## SCHEDULE

- ▶ Two days to speak about quantum spacetime and related topics
  - ▶ LIV searches with HE sources have been conducted here for many years
- ▶ This morning,
  - ▶ theory/phenomenology
  - ▶ astrophysical sources for LIV searches
- ▶ This afternoon,
  - ▶ HESS, MAGIC, VERITAS recent results
    - ▶ A step towards CTA : how to combine LIV results from different experiments/arrays ?
  - ▶ Recent Fermi results
  - ▶ Constraints from photons and neutrinos



# SCHEDULE

- ▶ Tomorrow morning,
  - ▶ more results with photons : polarization, gamma+gamma threshold modification
  - ▶ cosmology
  - ▶ other messengers : GW, neutrinos
- ▶ Tomorrow afternoon,
  - ▶ UHECR
  - ▶ Future :
    - ▶ Space missions
    - ▶ CTA



## WIFI

- ▶ eduroam
- ▶ LPNHE-GUEST
  - ▶ You will need a login and password
  - ▶ Grab a paper !



WELCOME

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## FOR SPEAKERS ONLY ! (SORRY FOR THE OTHERS !)

- ▶ We will have lunch all together at the « Ardoise » on the campus
- ▶ We will have dinner tonight at the « AOC » nearby
  - ▶ Traditional french cuisine !



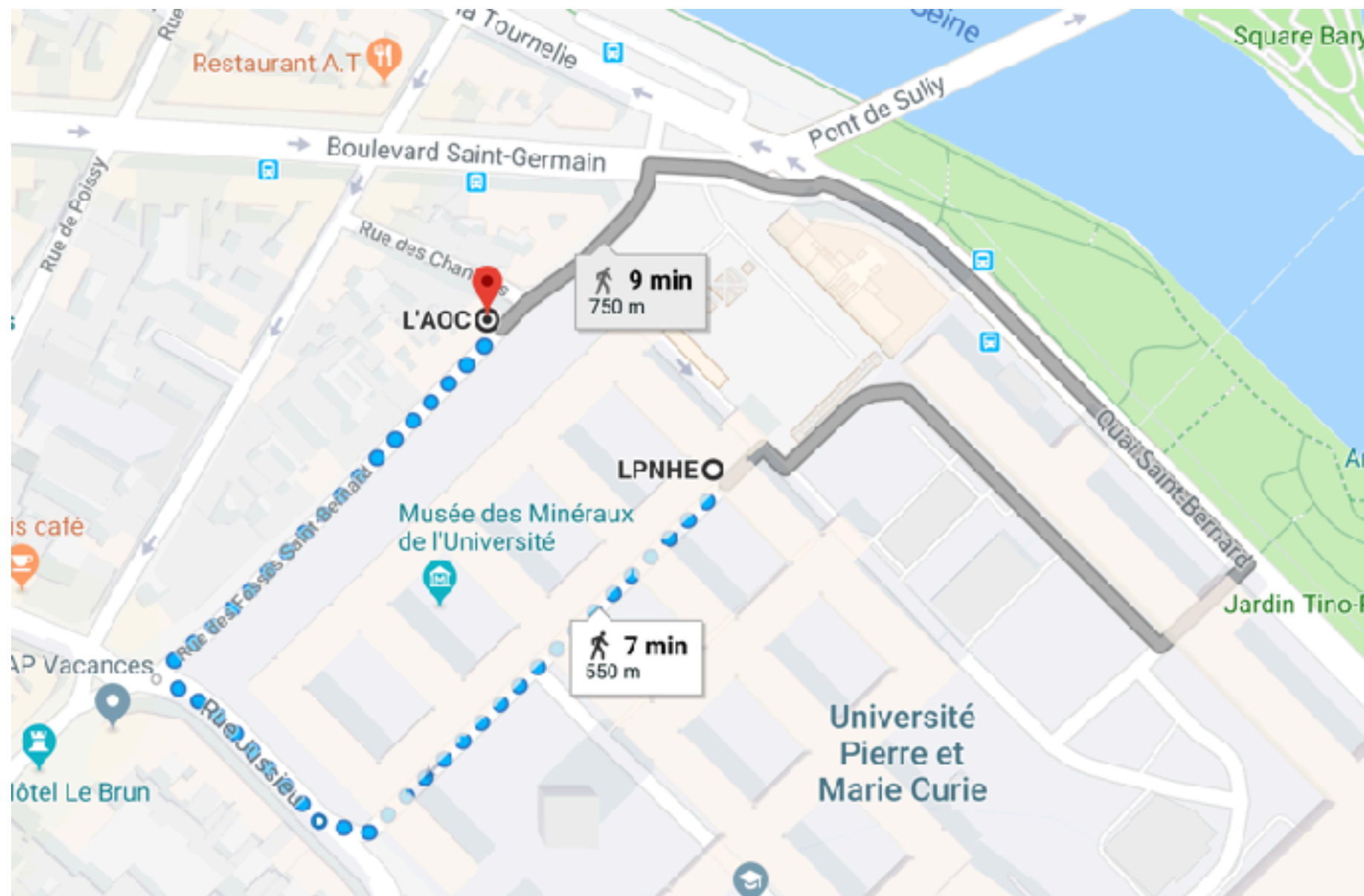


WELCOME

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## FOR SPEAKERS ONLY !

- We will meet at 7:30 PM in front of the restaurant





WELCOME

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**ENJOY THE MEETING !**