

WORKSHOP ON COLLOIDAL NANOCRYSTALS

Dear all,

We organize a Workshop on "COLLOIDAL NANOCRYSTALS", supported by the Labex Matisse. The workshop will be on Campus Jussieu, the 3rd of July. This workshop is an opportunity to discuss the recent development in the field of semiconductor nanocrystals. The talks will cover:

- Nanocrystal synthesis and surface chemistry,
- Electronic structure spectroscopy,
- Application to light emission including LED, displays,...
- Transport and devices

Invited speakers are: Christian Klinké (University of Swansea), Zeger Hens (University of Gent), Benjamin Abecassis (ENS Lyon), Maria Chamarro (Sorbonne Université), Peter Reiss (CEA Grenoble)

Talks are already allocated but there is still room for more attendees. Registration is free but mandatory. Send an email at workshopQD2018@insp.upmc.fr

Program of the day

- 9h30 opening words
- **Session Optic and spectroscopy of nanocrystals** - Chair L. Legrand

9h35-10h05	M. Chamarro (Sorbonne U)	Optical studies of ensembles and individual CsPbBr ₃ nanocrystals
10h05-10h20	A. Maitre (Sorbonne U.)	Giant Purcell effect in plasmonic patch antenna
10h20-10h35	A. Degiron (C2N)	Metallic antennas for optimizing the optoelectronic properties of lead salt nanocrystal assemblies
10h35-10h50	A.L. Baudrion (UTT)	Active control of the photoluminescence emitted by quantum dots using metallic nanoparticles and photochromic molecules.
10h50-11h05	C. Livache (Sorbonne U.)	Dynamics in narrow band gap nanocrystals

- **11h05-11h20 Coffee break**

- **Session Nanocrystal surface chemistry-** Chair N Lequeux

11h20-11h50	Z. Hens (U. Gent)	Quantum dot surfaces - from ligand-binding motifs to electronic properties
11h50-12h20	T. Pons (ESPCI)	Designing quantum dots for biological imaging: tracking single proteins in cells and single cells in vivo

- **12h20-13h30 : Lunch + poster session** : Room 22-23-317

- **Session Nanocrystals synthesis** - Chair S. Ithurria

13h30-14h00	P. Reiss (CEA)	Advances in the synthesis of non-toxic fluorescent nanocrystals
14h00-14h30	B. Abecassis (ENS Lyon)	CdSe Nanoplatelets Assemblies: stack and twist
14h30-14h45	F. Delpech (INSA)	Single Source Precursors to Iron Germanide Nanocrystals
14h45-15h00	M. Teissier (U. Gent)	Synthesis of III-V colloidal Quantum Dots

- **15h00-15h30 Coffee break**

- **Session : narrow band gap materials** - Chair E. Lhuillier

15h30-16h00	C. Klinke (U. Swansea)	Optoelectronic transport through two-dimensional nanostructures
16h00-16h30	P. Guyot Sionnest (U. Chicago)	Can colloidal quantum dots inks compete with single crystals for mid-infrared detection
16h30-16h45	E. Izquierdo (ESPCI)	Strongly confined HgTe 2D NPLs as narrow near infrared emitters
16h45-17h00	N. Goubet (Sorbonne U.)	New narrow band gap materials to expand the range of wavelength and photodetection performances in the infrared

- **17h00-19h30 Cocktail + poster session** : Room 22-23-317

How to come to Sobonne Université

Address is

Amphitheater charpack

4 place jussieu

75005 Paris

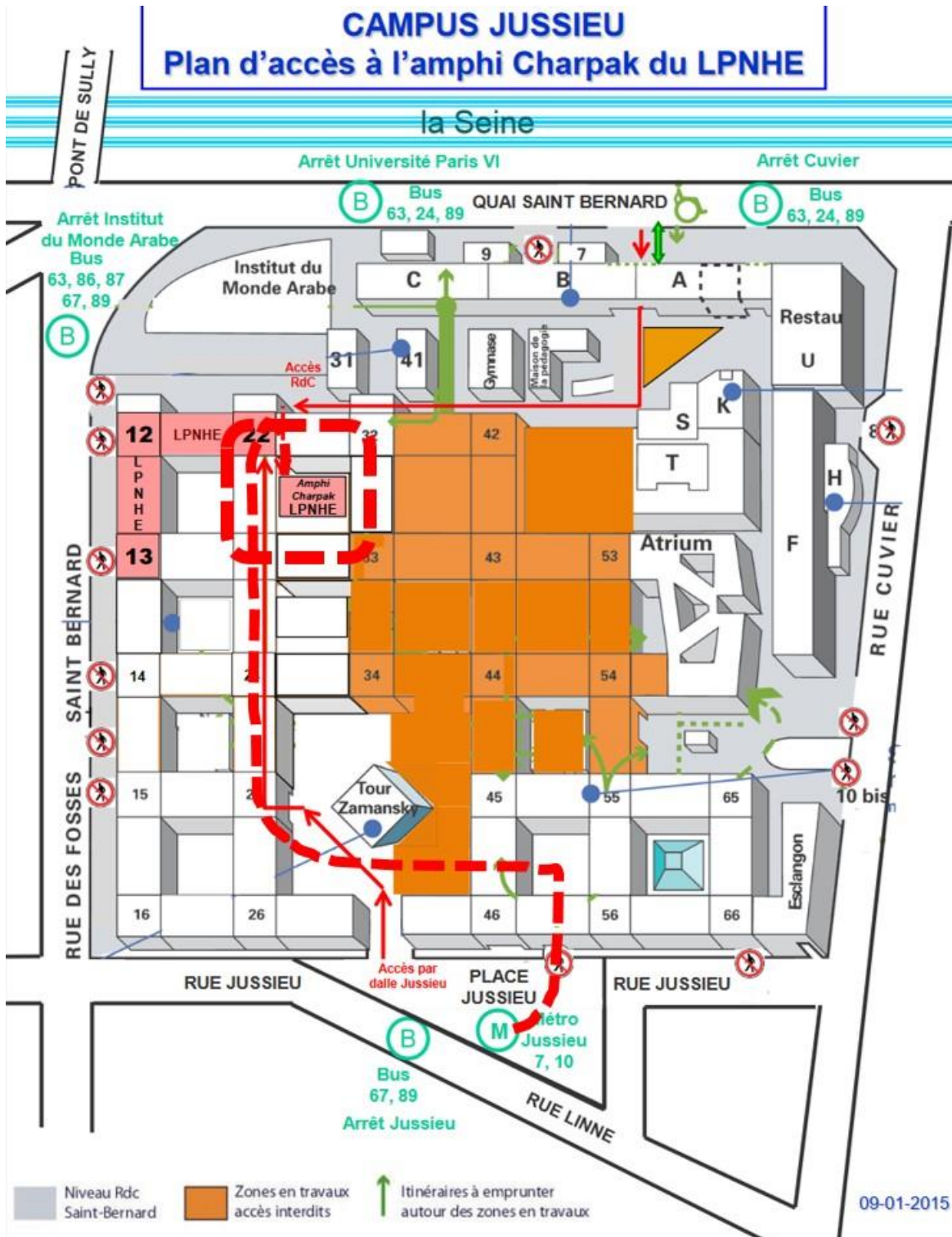
It is located on line 7 and 10 of metro at stop Jussieu

From Gare du Nord

Take line 4 direction Montrouge and change at chatelet for line 7 direction Ivry, stop at jussieu

Once on campus

Go to tower 22 and take elevator or stair to RC level



Follow the thick dashed red line from outside campus to reach the Charpak amphitheater