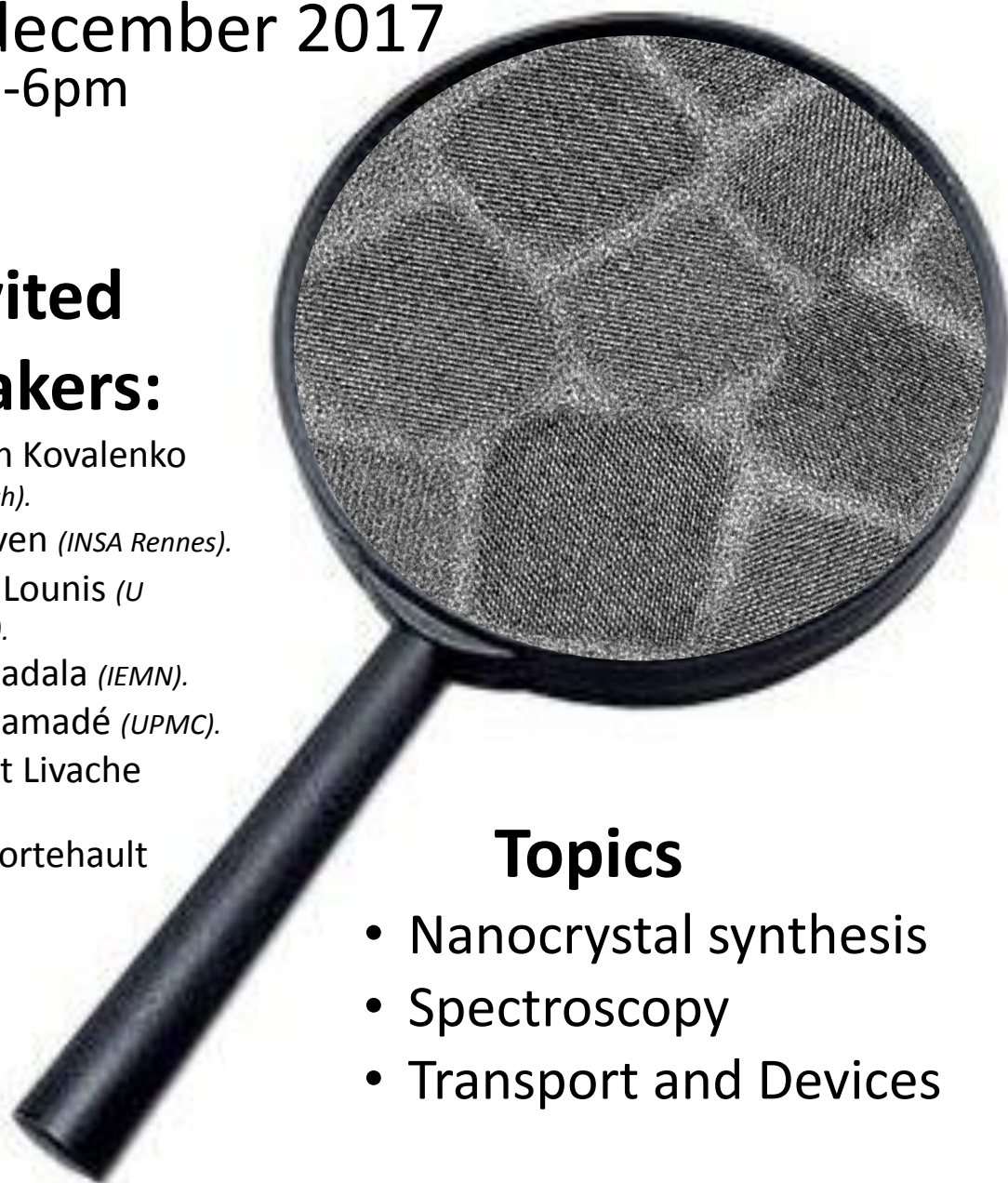


WORKSHOP ON PEROVSKITES NANOCRYSTALS

5th of december 2017
1:30 pm-6pm

Invited speakers:

- Maksym Kovalenko (*ETH Zurich*).
- Jacky Even (*INSA Rennes*).
- Brahim Lounis (*U Bordeaux*).
- Louis Biadala (*IEMN*).
- Julien Ramadé (*UPMC*).
- Clément Livache (*UPMC*).
- David Portehault (*UPMC*).



Topics

- Nanocrystal synthesis
- Spectroscopy
- Transport and Devices

Campus Jussieu - Tower 22, 3rd floor, corridor 22-23-room 317



Program of the workshop

Registration is free but mandatory. Send an email at PQDworkshop@insp.upmc.fr.

Number of seats will be limited and will be attributed on a first arrived, first served basis.

Place : Université Pierre et Marie Curie (4 place Jussieu, 75005 Paris, métro station: Jussieu line 7 and 10). Once on Campus, go tower 22, 3rd floor, corridor 22-23, room 317.

13h30 : Opening words

13h35-14h30 : Maksym Kovalenko (ETH Zurich) :

Colloidal nanocrystals of $APbX_3$ [$A=Cs^+$, $CH_3NH_3^+$, $CH(NH_2)_2^+$, $X=Cl, Br, I$] perovskites with bright photoluminescence spanning the entire visible spectral range

14h30-15h00: Jacky Even (INSA Rennes) :

Dielectric confinement effects in perovskite nanostructures

15h00-15h30 Brahim Lounis (U. Bordeaux) :

Neutral and charged exciton fine structure in single lead halide perovskite nanocrystals revealed by magneto-optical spectroscopy

15h30-16h50 :Coffee break

16h50-16h20 Louis Biadala (IEMN) :

Negatively Charged and Dark Excitons in $CsPbBr_3$ Perovskite Nanocrystals Revealed by High Magnetic Fields

16h20-16h50 Julien Ramadé (UPMC) :

Excitonic fine structure and electron-phonon interactions of individual $CsPbBr_3$ nanocrystals

16h50-17h20 Clément Livache (UPMC) :

Transport and GHz phototransport in $CsPbX_3$ nanocrystals solid

17h20-17h50 David Portehault (UPMC)

New synthetic approaches towards complex inorganic nanocrystals: inorganic perovskite oxides, their transport and catalytic properties

17h50-19h00 : Drink