

## Fundamental research

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### Dorian BOUCHET

Langevin Institute  
PSL Univ.

*Plasmon-mediated energy transfer and super-resolution imaging in the near field of nanostructured materials*

**PhD thesis director:** Yannick DE WILDE

**PhD supervisor:** Valentina KRACHMALNICOFF



### Jérémy RIO

IMN Laboratory  
Nantes Univ.

*Ab initio modeling of Cycloparaphenylenes at atomic scale*

**PhD thesis director:** Christopher EWELS

## Interdisciplinary research

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### Jan-Patrick Dela Cruz CALUPITAN

CEMES Laboratory  
Toulouse Univ. and NAIST (Japan)

*Highly sensitive terarylenes: Synthesis, switching, and scanning tunneling microscopy studies*

**PhD thesis director:** Gwénaél RAPENNE and Tsuyoshi KAWAI



### Jeanne VOLATRON

MSC Laboratory  
Paris Diderot Univ.

*Long term fate of inorganic nanoparticles : biotransformation and biodegradation*

**PhD thesis director:** Florence GAZEAU

**PhD supervisor:** Gaëlle CHARRON & Damien ALLOYEAU

## Applied research

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### Thomas BOTTEIN

IM2NP Laboratory  
Aix Marseille Univ.

*Synergetic combination of top-down and bottom-up lithography processes for large scale nanostructures applied to photonics*

**PhD thesis director:** David GROSSO

**PhD supervisor:** Luc FAVRE



### Sarah DELSHALDI

IAB G2ELab Laboratory  
Grenoble Alpes Univ.

*Immunoassays exploiting superparamagnetic nanoparticles and structured micro-magnets*

**PhD thesis director:** Patrice MARCHE & Orphée CUGAT