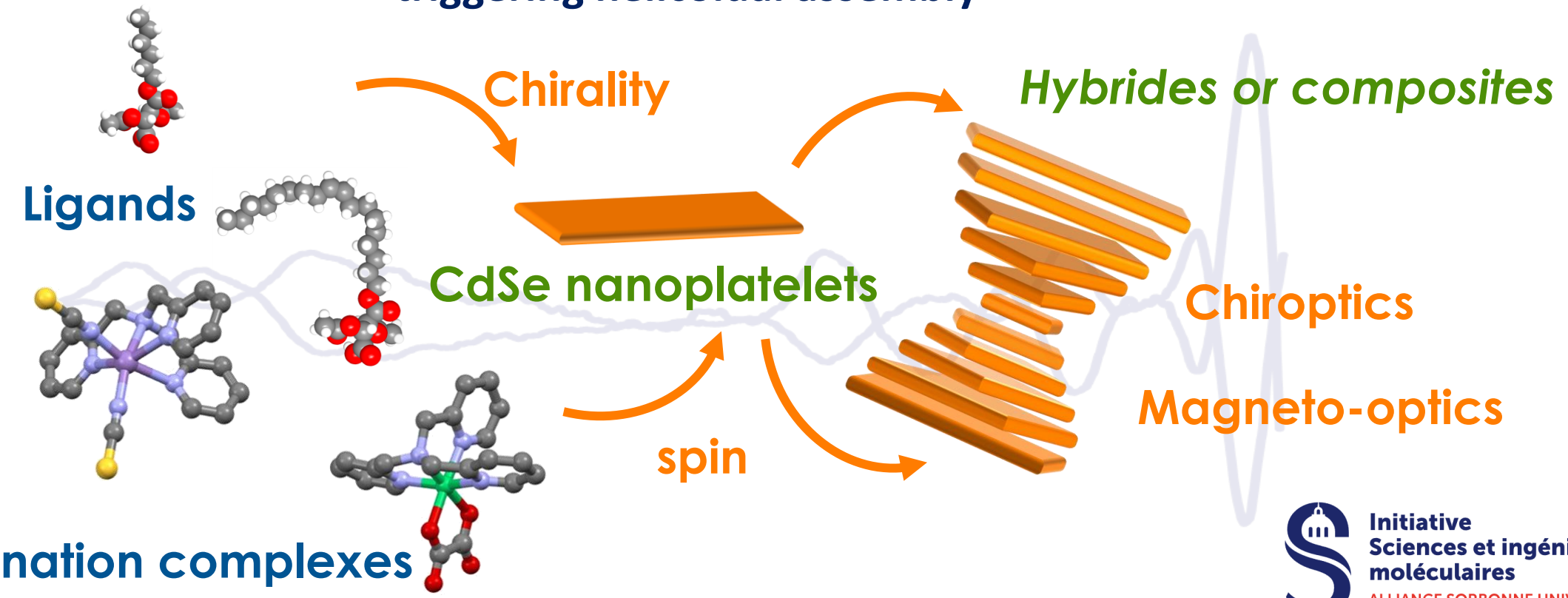
Functionalization of CdSe nanoplatelets with chiral compounds triggering helicoidal assembly

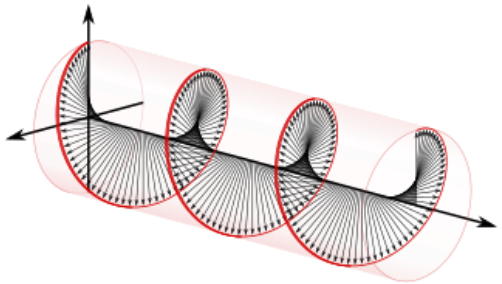


Initiative Sciences et ingénierie moléculaires
ALLIANCE SORBONNE UNIVERSITÉ

Thibaud HENRY

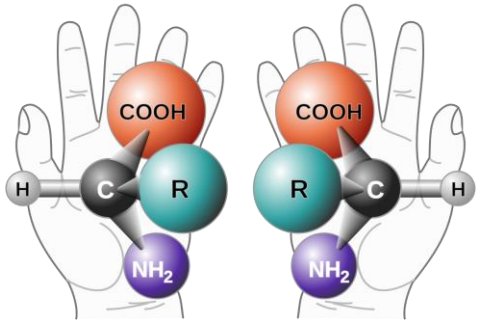
Magneto-chiral dichroism

Natural circular dichroism

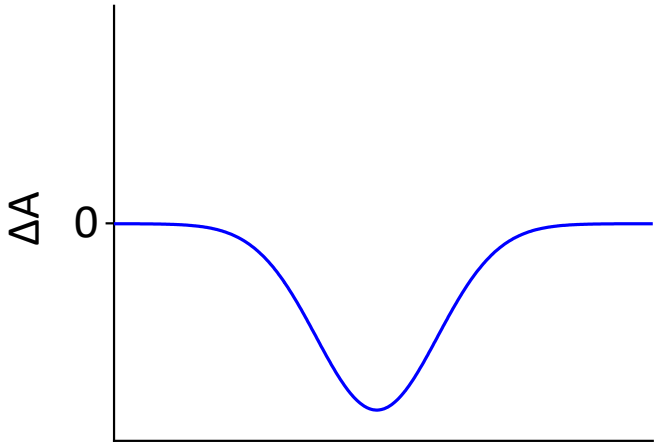


Circularly polarized light

+



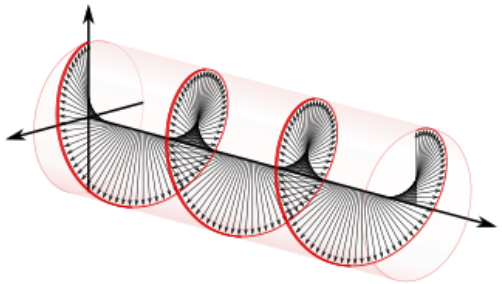
Chirality



Wavelength

Magneto-chiral dichroism

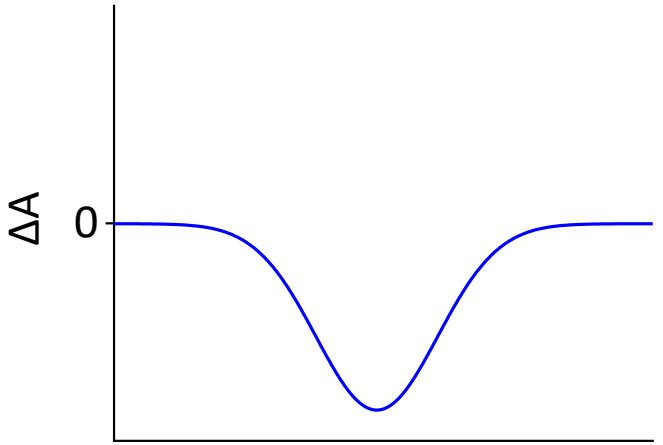
Magnetic circular dichroism



Circularly polarized light

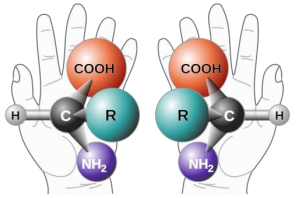
+

Magnetic field



Magneto-chiral dichroism

Natural circular dichroism

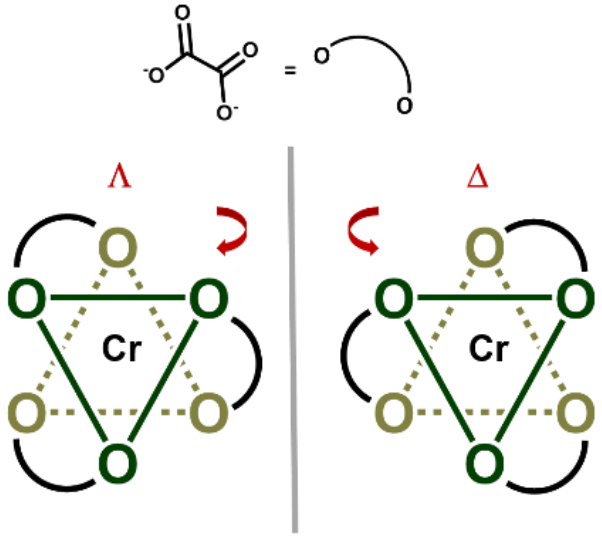


Chirality

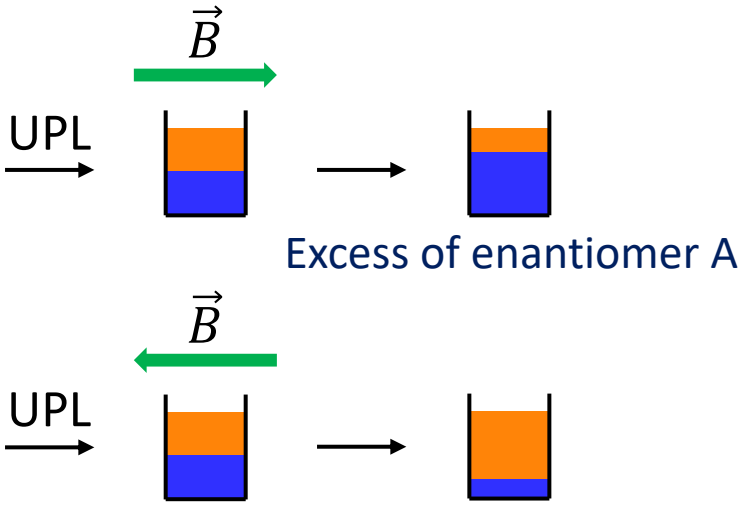
+

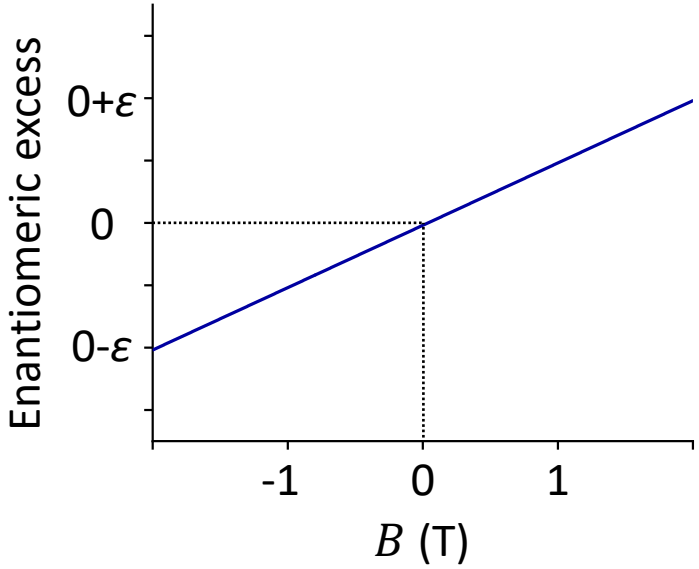
Magnetic circular dichroism

Magnetic field

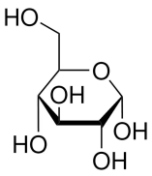


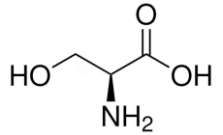
(Reverse) Magneto-chiral dichroism





Homochirality of life





Rikken, G. L. J. A.; Raupach, E. Enantioselective Magnetochiral Photochemistry. *Nature* **2000**, *405* (6789), 932–935.

Magneto-chiral dichroism

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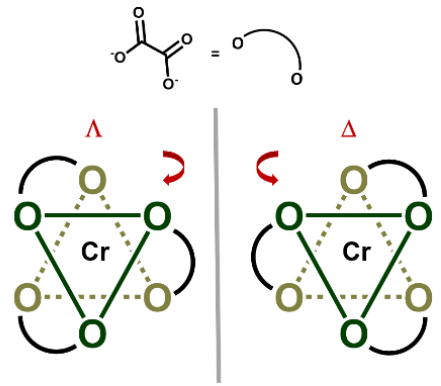
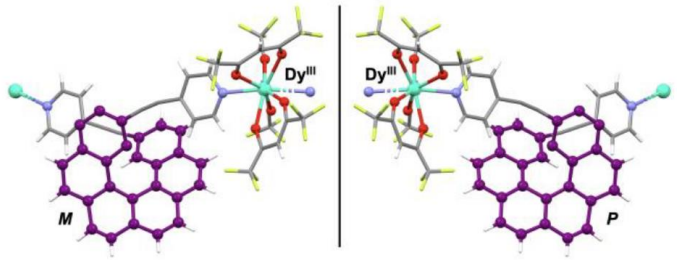


Transition metal and lanthanide complexes



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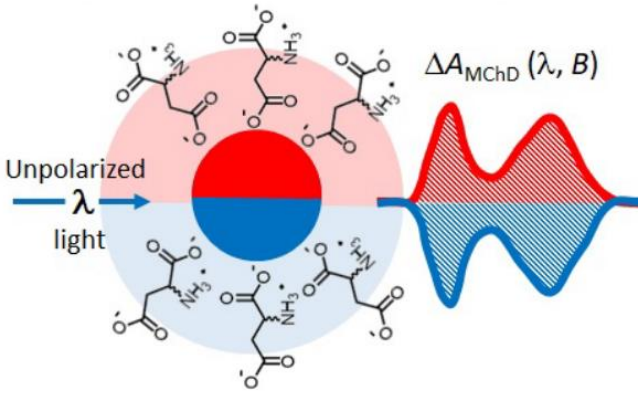


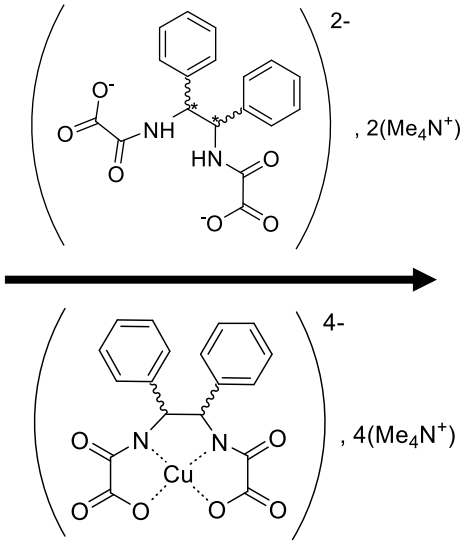
Cobalt hydroxide nanoparticles

My poster

- Natural circular dichroism
- Magnetic circular dichroism
- Electron microscopy
- Absorption and emission spectroscopy

My project

CdSe nanoplatelet



Helicoidal assembly