

UNUSUAL CIRCULARLY POLARIZED LUMINESCENCE APPLICATIONS of f-ELEMENTS

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Lanthanide-coordination complexes exhibit fascinating optical and chiroptical properties, due to the 4f-4f transitions leading to applications in various fields in materials science or biology. In particular magneto-(chir)optical correlations and emerging circularly polarized luminescence applications in bioimaging.

In this contribution, we reported unusual chiroptical properties of 4f but also 5f elements like the induction of Circularly Polarized Luminescence of an achiral Eu(III) Complexes via interaction Protein and the generalization of CPL properties to Actinides derivatives like Cm(III) complexes.

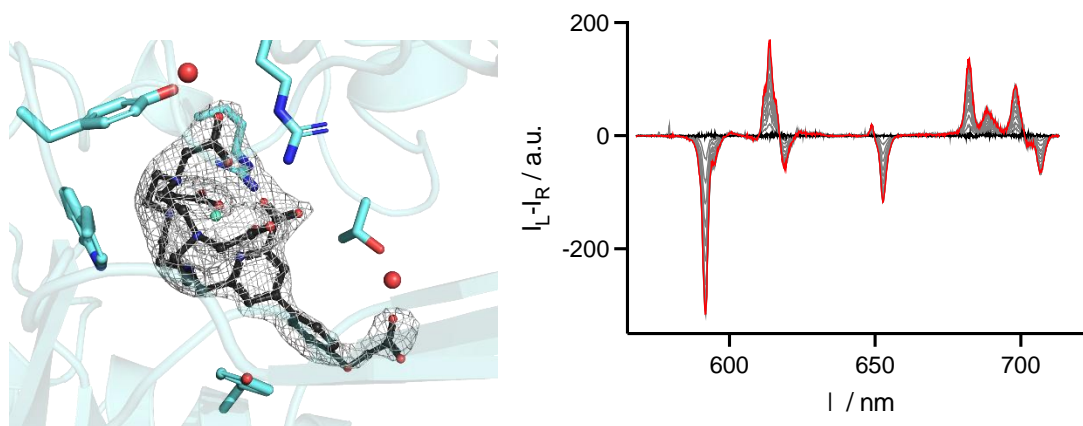


Figure. Supramolecular interaction of Eu(III) cyclen complex with protein and related CPL titration.

Acknowledgements. We thank The groups of Drs. B. Le Guennic, F. Pointillart, O. Cador (Univ Rennes) Dr. E. Girard (IBS Grenoble) and Pr S. Guy, Drs. B. Baguenard and A. Bensalah-Ledoux (ILM Univ Lyon), O.Sénèque (CEA Grenoble) and Pr. G. Ung (USA) for fruitful collaboration. We also thank ANR SMMCPL, Crystgrowtw for financial support.