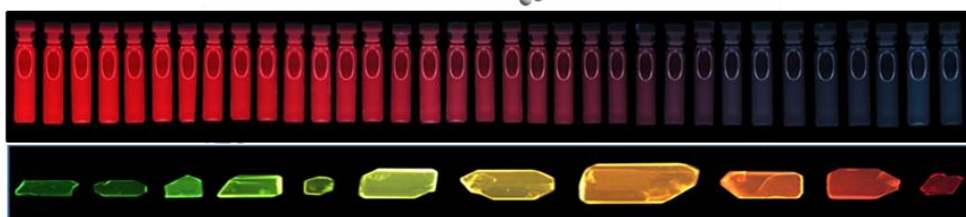
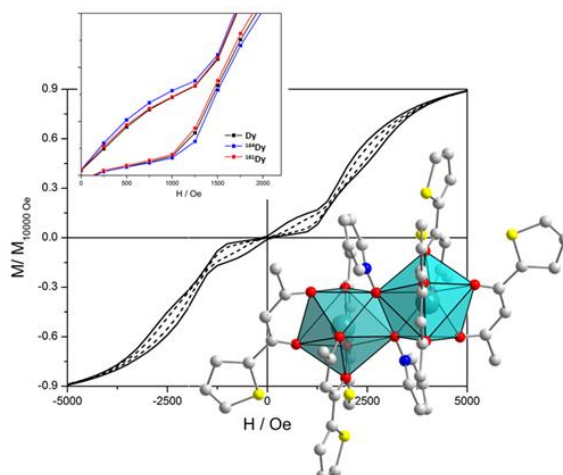


## PhD application

### "Lanthanide-based luminescent and commutable single-molecule magnets"

The association of metallic ions and organic ligands through coordination chemistry techniques is a very efficient route to design multidimensional edifices. Our group develops an intense activity in this area by working either with charged (carboxylate derivatives) or neutral ligands (N-oxide derivatives) in order to afford tri-dimensional metal-organic frameworks or isolated molecules. The aim of this project is to construct new multifunctional molecular edifices. Their luminescent properties (luminance, quantum yield, life time...) and magnetic properties will be deeply investigated. Special efforts will be made to investigate their magnetic slow relaxation and to characterize their possible single-molecule magnet behavior.



**NOTE: Granting is not fully consolidated yet, although students with disabilities are very likely to have full grant secured**

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