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## **Towards High-Temperature Light-Induced Spin State Trapping: Insights From the Crystal Field Theory and Molecular Dynamics**

*Tuesday 13 December 2022 18:45 (15 minutes)*

We introduce a semi-empirical microscopic model of spin crossover materials combining crystal field theory with elastic intermolecular interactions. We investigate the interplay of single site and collective physics of SCO materials. We demonstrate a realistic route to room temperature switching.

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**Session Classification:** Poster session

**Track Classification:** AIP Congress: AIP: Condensed Matter, Materials and Surface Physics