第16回錯体物性化学講演会

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金属錯体を基盤とする分子磁性体の磁気熱効果や 分子量子ビットへの応用研究を精力的に展開されて いる Maheswaran Shanmugam 博士 (IIT, India) をお招きして、講演会を開催いたします。 皆さまのご来聴をお待ち申し上げます。

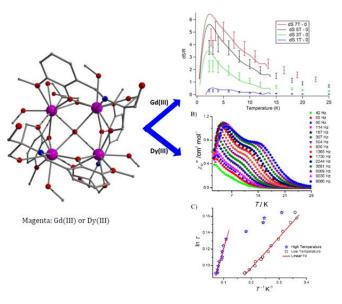


日時: 2015 年 5 月 29 日(金) 16: 30 ~ 18:00

場所:理学部2号館2階 化学第三講義室

講演タイトル:

Effect of Magnetic Anisotropy on Magnetic Coolant Property of Square Based Ln₄ (where Ln = Dy, Tb, Gd) Complexes



Abstract: Cryogenic liquids such as ³He-⁴He are currently being used to achieve ultra-low temperatures and this requires a complicated mechanical setup. More over ³He is becoming rare and expensive; hence an alternative for cryogenic liquids is mandatory. As the blocking temperature of the molecular nano magnets are lies close to 4-5 K, these MNMs could be a suitable candidate and an alternative to achieve ultra-low temperature with the aid of external magnetic field. The factors which influence the magnetic cooling efficiency of a series of square based lanthanide complexes will be discussed in this presentation.

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