
The 120th iCeMS SEMINAR

Tue 09 Oct 2012
13:30-15:00

Mechanical Properties of Metal-Organic Frameworks

Lecturer: **Prof. Dr. Anthony K. Cheetham**
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Venue: 2nd floor Seminar Room (#A207)
iCeMS Main Building (#71), Kyoto University

The study of Metal-Organic Frameworks (MOFs) is one of the most fashionable areas of materials chemistry. The Zeolitic Imidazolate Frameworks (ZIFs) are a particularly interesting sub-class of MOFs on account of their close structural relationship to aluminosilicate zeolites. I shall discuss our recent work on ZIFs, including their mechanical properties, behaviour under pressure and amorphization. I shall also describe some related work on dense hybrid frameworks, including their compressibility and the formation of nanosheets from layered frameworks.

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