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## **Seminar**

### **A new twist in nano magnetism: Coherent soft X-rays view**

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The immense potential of ultra-fast spin manipulation for applications in information storage generates a great interest in the equilibrium and non-equilibrium properties of the coned magnetic nanostructures. Very recently, artificial spin ice, a system where exchange energy (eV) and demagnetization energy (meV) both are involved has come into the focus of interest. In this talk, utilizing soft X-rays coherent scattering based speckle correlation spectroscopy a direct probe of the magnetic field induced local accommodation and the propagation of monopole like magnetic quasiparticles will be described. Ultimate insights of rarely understood topological aspects of quasiparticles and its dynamics would be emphasized.

***Thursday, May 28<sup>th</sup> 2015***

***11:30 AM (Tea/Coffee at 11:15 AM)***

***Seminar Hall, TCIS***