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**10 October 1h30 pm:**

**Florent Baume**

Title:

6D SCFTs, Long Quivers, and (Super-)Spin Chains

Abstract:

Nearly all 6D  $N=(1,0)$  SCFTs can be described in terms of one-dimensional spines of quiver nodes linked by conformal matter, a strongly-coupled generalisation of bifundamental hypermultiplets. These theories have a large- $R$ -charge sector of operators for which anomalous dimensions are at leading order governed by an integrable open Heisenberg spin chain. Via superconformal symmetry, this can in turn be extended to an  $osp(2,6|1)$  super-spin chain, and 4D  $N=2$  avatars can be obtained through compactification. I will review the construction of those SCFTs and how to build the large-charge operators from their conformal matter building blocks, their interpretation as a spin chain, and how to determine the integrable Hamiltonian capturing the operator mixing.