Date/Time: Monday 4 February 10:00 - 11:00 am

Place: 3rd floor Physics conference room

Speaker: Ana Retore (IFT - Sao Paulo)

Title: Symmetries and degeneracies of open quantum spin chains

Abstract:

Using boundary conditions depending on a discrete parameter p, we construct anisotropic integrable open spin chains (associated with some affine Lie algebras) and we use their symmetries to explain the degeneracies of their spectra. We find a simple relation between these models and the Dynkin diagrams of the corresponding algebras. The Bethe ansatz solutions for these models are also briefly discussed. Based on recent work with R. Nepomechie and R. Pimenta (arxiv:1810.09048, arxiv:1802.04864 and arxiv:1707.09260).