Tuesday, April 27, 2021, at 10:00 (Boston)
15:00 (UK/Eire)  16:00 (C.Europe)  22:00 (China)
Mathematical Picture Language Seminar

Zoom at: https://harvard.zoom.us/j/779283357?pwd=MitXVm1pYUlJVzZqT3lwV2pCT1ZUQT09

Dimerization in quantum spin chains with O(n) symmetry
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Abstract. We consider spin-S quantum spin chains with a family of O(2S+1)-invariant nearest-neighbor interactions and discuss the ground state phase diagram of this family of models. Using a graphical representation for the partition function, we give a proof of dimerization for an open region in the phase diagram, for all sufficiently large values of S. (Joint work with Jakob Bjoernberg, Peter Muehlbacher, and Daniel Ueltschi).