

Time & Location: Wednesday March 2, 2:45-3:45 pm, UNIV 017 and on Zoom

Speaker: Sasha Tsymbaliuk (Purdue)

Title: BGG-type relations for transfer matrices of rational spin chains and the shifted Yangians

Abstract: In this talk, I will discuss: (1) the new BGG-type resolutions of finite dimensional representations of simple Lie algebras that lead to BGG-relations expressing finite-dimensional transfer matrices via infinite-dimensional ones, (2) the factorization of infinite-dimensional ones into the product of two Q-operators, (3) the construction of a large family of rational Lax matrices from antidominantly shifted Yangians.
This talk is based on the joint works with R.Frassek, I. Karpov, and V.Pestun.