

**Kiritchenko, Valentina**, Interactions of representation theory with lattice polytopes

Lattice polytopes arise naturally at the crossroads of representation theory and theory of Newton-Okounkov convex bodies. In my talk, I will describe several families of such polytopes from the viewpoint of convex geometry. In particular, I describe a convex geometric construction of Gelfand-Zetlin polytopes and Littelmann-Feigin-Fourier-Vinberg polytopes, which implies the equality of their Ehrhart polynomials.