
SERAPHIM JAROV, Perimeter Institute
Novel integrable PDEs from twistor theory

Twistor theory beautifully captures the solutions of 4d non-linear PDEs within complex geometric data. I will explain this correspondence and introduce novel deformations of classic PDEs that admit interesting twistorial descriptions. Time permitting, I will also touch on exciting connections to vertex operator algebras, topological string theory, and scattering amplitudes.