

Rational interpolants and solutions of dispersionless Hirota system

Tuesday 7 July 2026 10:05 (25 minutes)

The aim of this talk is to construct a class of explicit nontrivial rational solutions of the dispersionless Hirota system of PDEs. All the solutions in this class are of homogeneity degree 1 and are quotients of homogeneous polynomials. It is well-known that the solutions of the Hirota dispersionless systems describe Veronese webs. By nontriviality of the solutions it is meant that the corresponding Veronese webs are nonflat at generic points.

Presenter: PANASYUK, Andriy (Faculty of Mathematical and Natural Sciences, Cardinal Stefan Wyszyński University)