SHAOXIONG HOU, Department of Mathematics and Statistics, Memorial University of Newfoundland *A mixed volume from the anisotropic Riesz-potential*

As a geometrical understanding of the maximal gravitational potential in computational and mathematical physics, this talk investigates a mixed volume induced by the so-called anisotropic Riesz-potential and establishes a reverse Minkowski-type inequality. As one of the applications, some embedding problems of function spaces in PDEs are improved.