Guangzhou Discrete Mathematics Seminar

Geometrical properties of spherical Laguerre Voronoi diagram with applications

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Many natural phenomena display as polygonal patterns on the sphere. Voronoi diagram is one of the candidates to model those patterns for understanding pattern formation. We mainly focused on the spherical Laguerre Voronoi diagram, the generalized Voronoi diagram on the sphere. In this talk, we will investigate the geometrical properties of the diagram which rely on the polyhedra and apply those properties to approximate and generate the real-world tessellations on the sphere. This work is joint work with Prof. Kokichi Sugihara from Meiji University, Japan.

QR code of the
seminar series