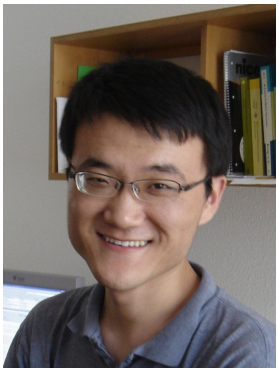
Guangzhou Discrete Mathematics Seminar

A discrete curvature approach to strongly spherical graphs



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Room 416, School of Mathematics, Sun Yat-sen University

The (strongly) spherical graphs were introduced by Berrachedi, Havel, Mulder in 2003 as an interesting generalization of hypercubes. In this talk we discuss a discrete version of Bonnet-Myers-Cheng theorem, which involves estimate of graph diameter via discrete curvature bounds and the related rigidity results. This theorem justifies the analogies between strongly spherical graphs and round spheres. This talk is based on joint works with Cushing, Kamtue, Koolen, Muench and Peyerimhoff.

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