

MIMS現象数理カフェセミナー

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Continuous flattening of polyhedral surfaces

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Abstract: Can we flatten an empty box of paper without cutting and stretching? According to the Cauchy rigidity Theorem (1813) and the Sabitov volume Theorem (1996), it is necessary to change the shape of some faces by moving edges for such motion. Generally, a problem which was proposed by Eric Demaine et al. in 2001 asks to find a continuous flattening motion for any given polyhedron. If the polyhedron is convex, such continuous flattening motion was given with a few methods by the author et al. recently. In this talk, the key ideas are introduced and some future works are proposed.



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