

POINTS AT RATIONAL DISTANCES FROM THE VERTICES OF CERTAIN GEOMETRIC OBJECTS

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We consider various problems related to finding points in \mathbb{Q}^2 and in \mathbb{Q}^3 which lie at rational distance from the vertices of some specified geometric object, for example, a square or rectangle in \mathbb{Q}^2 , and a cube or tetrahedron in \mathbb{Q}^3 .

This is joined work with Andrew Bremner (ASU)