

A SURFACE COMING FROM AN ARITHMETIC QUESTION

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We study a surface in \mathbb{P}^6 , which is a complete intersection of four quadrics coming from the rational distance problem: given a unit square on the plane, is there a point on the plane whose distances to the four points are all rational?

Joint work with Martha Bernal (CONACyT - Universidad Autonoma de Zacatecas, Mexico.).