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REAL 3-MANIFOLDS AND CODES

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Abstract

A real 3-manifold is a 3-manifold with orientation preserving involution. In analogy to my work with Volker Puppe, where we attach a binary code to a 3-manifold with orientation preserving involution I attach a code over the Gaussian integers mod 2 to a real 3-manifold. I will explain this and discuss the following question. Which codes over the Gaussian integers mod 2 occurs this way? I will also discuss the relation between such codes and lattices in C^n .

Date : Friday, December 28, 2012

Time: 11:00

Place: IMBM Seminar Room, Boğaziçi University South Campus