

MAFIA/TIGR - the seminar you can't refuse

**Metamaterials, d'Alambert operator on a rectangle
and badly approximable irrational numbers**

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Abstract: We give an account on a part of joint work in progress with Amru Hussein, Vadim Kostrykin, Konstantin Makarov and Stephan Schmitz. We particularly explain how we arrived at a number-theoretic problem by applying the method of indefinite quadratic forms to operators without ellipticity arising in mathematical models of metamaterials.