

INSTITUTUL DE MATEMATICĂ “SIMION STOILOW” AL ACADEMIEI ROMÂNE

Conferința lunară

On the Geometry of Alexandrov Surfaces

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Abstract: This expository talk will have three parts. First, I'll introduce the notions of *Alexandrov surface*, *cut locus*, and *critical point for distance function*. The space of Alexandrov surfaces will also be presented here. Second, I'll show a few results related to critical points for distance functions. Third, I'll give some properties of most Alexandrov surfaces; here, *most* is used in the sense of Baire categories. The talk is mainly based on several joint works, with Imre Bárány, Jin-ichi Itoh, Joël Rouyer, and Tudor Zamfirescu.