



セミナー情報

2020年2月 セミナー一覧

2020.2.4 (火) | セミナー

幾何と解析セミナー (15:30--17:00【会場：東北大学大学院情報科学研究科棟 2階大講義室】)

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題目： Heat content, exit time moments and isoparametric foliations

概要：

We consider two functionals on a smooth compact domain in a Riemannian manifold : the first is the heat content at time t , and second is the k -th exit time moment for any given positive integer k . The scope is to classify those domains which are critical functionals (at all times t and, respectively, for all k). We show in particular that criticality for any of the two functionals is equivalent to the existence of an isoparametric foliation of the domain, that is, a foliation by parallel, constant mean curvature hypersurfaces having only one (minimal) singular leaf.