Zoom 開催

第34回

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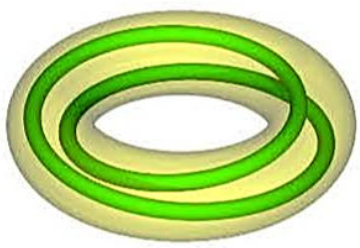
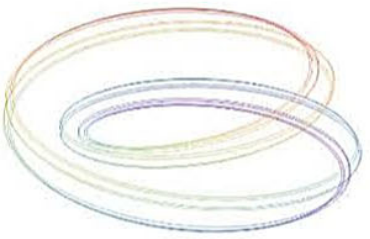
(University of Illinois at Chicago)

Musashino Center of Mathematical Engineering Seminar

Cantor dynamics of renormalizable groups

A group G is said to be finitely non-co-Hopfian, or renormalizable, if there exists a proper self-embedding of G into itself whose image has finite index. Such a proper self-embedding is called a renormalization for G. In this work, we assign a dynamical system to a renormalization of G. The discriminant invariant D of the associated Cantor dynamical system is a profinite group. The discriminant is a measure of the asymmetries of the dynamical system. If D is a finite group for some renormalization, we show that G/N is nilpotent, where N is the kernel of the action map. We also introduce the notion of a renormalizable Cantor action, and prove that the renormalization property of a Cantor action is an invariant of continuous orbit equivalence. Moreover, the discriminant invariant of a renormalizable Cantor action is an invariant of continuous orbit equivalence. The action associated to a renormalizable group is itself renormalizable.





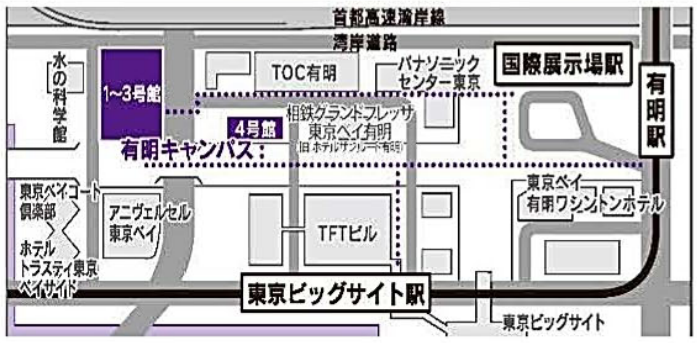
6月23日（火） 9:00–10:00

【日本時間】

オンライン開催（Zoom）

参加ご希望の方は，事前に mcme@musahsino-u.ac.jp までご連絡ください.

りんかい線「国際展示場駅」徒歩7分



コーディネーター： 坪井 俊（武蔵野大学工学部数理工学科　教授）

問い合わせ先： 武蔵野大学数理工学センター
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