

Rohlin flows on von Neumann algebras

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(Submitted on 5 Jun 2012 (v1), last revised 25 Sep 2012 (this version, v2))

We will introduce the Rohlin property for flows on von Neumann algebras and classify them up to strong cocycle conjugacy. This result provides alternative approaches to some preceding results such as Kawahigashi's classification of flows on the injective type II₁ factor, the classification of injective type III factors due to Connes, Krieger and Haagerup and the non-fullness of type III₀ factors. Several concrete examples are also studied.

Comments: 110 pages, Section 7 is rewritten

Subjects: **Operator Algebras (math.OA)**Cite as: **arXiv:1206.0955 [math.OA]**(or **arXiv:1206.0955v2 [math.OA]** for this version)

Submission history

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