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Aligned CP-semigroups

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(Submitted on 11 Jul 2011)

A CP-semigroup is aligned if its set of trivially maximal subordinates is totally ordered by subordination. We prove that aligned spatial E_0 -semigroups are prime: they have no non-trivial tensor product decompositions up to cocycle conjugacy. As a consequence, we establish the existence of uncountably many non-cocycle conjugate E_0 -semigroups of type II_0 which are prime.

Comments: 5 pages

Subjects: **Operator Algebras (math.OA)**

MSC classes: 46L55, 46L57

Cite as: **arXiv:1107.2053 [math.OA]**

(or **arXiv:1107.2053v1 [math.OA]** for this version)

Submission history

From: Daniel Markiewicz [[view email](#)]

[v1] Mon, 11 Jul 2011 15:16:36 GMT (7kb)

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