

1074-37-324

**Antoine Julien\*** ([antoinej@uvic.ca](mailto:antoinej@uvic.ca)). *Orbital equivalence relation on tiling spaces.*

An important class of non-periodic tilings give rise to tiling spaces which are Cantor sets. The relation on tilings of "being a translate of one another" is then a minimal and étale equivalence relation on this Cantor set.

In the case of self-similar aperiodic tilings, there is a canonical AF-subrelation. We investigate how the tiling equivalence relation and this AF-subrelation differ. This can be described by the mean of Bratteli diagrams.

This is joint work with Jean Savinien. (Received August 23, 2011)