

**Diophantine Approximation, Fractal Geometry and Related topics /
Approximation diophantienne, géométrie fractale et sujets connexes**

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Catalin Badea

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Times-2 and Times-3 Invariant Measures and Exceptional Sets of Uniform
Distribution

We explore Furstenberg's times-2, times-3 conjecture, which poses the question of whether the normalized Lebesgue measure is the sole atom-free probability measure invariant under both times-2 and times-3 maps. Additionally, we analyze the size of exceptional sets associated with (almost) uniform distribution, which are linked to a sequence of positive integers and a measure on the circle. This is joint work with Sophie Grivaux.