

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

ID de Contribution: 27

Type: **Non spécifié**

## **Catalin Badea**

*vendredi 7 juin 2024 11:00 (30 minutes)*

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.