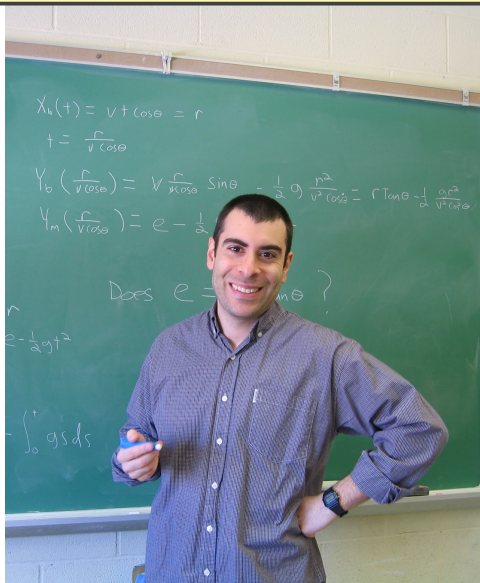


Mathematics and Physics Seminar Series



Announcing

A Seminar Presentation

on Wednesday

March 11, 2020

at 3:00 pm - 4:00 pm in

MAXCY 126

at The University of New Haven

Spectral upper bound for the torsion function of symmetric stable processes

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Abstract: Bounds on the product of the principal eigenvalue and L^∞ norm of the torsion function of Brownian motion that are uniform over a given class of domains $D \subset \mathbb{R}^d$ have been a topic of active research with several improvements and conjectures appearing in the literature recently. In particular, a result of H. Vogt (2019) gives an upper bound that is valid for all domains with finite inradius and is sharp up to leading order for large d . Using this result, we derive an analogous bound for the symmetric stable processes which captures the correct order of growth in d , improving upon the existing result of Giorgi and Smits (2010).

Further Information

Refreshments will be provided. Refreshments are served starting at 2:45 pm. For further information, please contact Dr. Phanuel Mariano at the Department of Mathematics and Physics, pmariano@newhaven.edu.