Stochastic Webinar

Invariant Gibbs measures for (1 + 1) dimensional wave maps into Lie groups

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Bjoern Bringmann is currently a Member of the Institute for Advanced Study and a Postdoctoral Research Associate at Princeton University. Prior to this, he earned his Ph.D. from the University of California, Los Angeles, under the mentorship of Terence Tao. His research interests lie at the intersection of partial differential equations and probability theory. More specifically, he has been working on nonlinear dispersive equations with random initial data.

Abstract: We consider the wave maps equation for maps from (1+1)-dimensional Minkowski space into a compact Lie group. The Gibbs measure of this model corresponds to a Brown ian motion on the Lie group, which is a natural object from stochastic differential geometry. Our main result is the invariance of the Gibbs measure under the wave maps equation and is the first result of this kind for any geometric wave equation. The proof combines techniques from differential geometry, partial differential equations, and probability theory.

讲座时间：

2023.10.11 周　 上午 9:00-10:00

会议地点：ZOOM会议室 会议ID：354 143 7366 密码：123456

主办单位：
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