

First Joint Meeting Brazil Italy of Mathematics
Special Session: Probability and Statistical Mechanics

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Title: Quasi invariant measures for diffusion process in evolutionary Biology

Speaker: Mauro Mariani (Università degli studi di Roma “La Sapienza”)

Abstract: I will give an overview of some techniques to prove the existence of quasi invariant measures for diffusion systems. I will discuss a 1d example, then focus on a multi-dimensional model motivated from a well-known paradigm evolutionary Biology (the Muller’s ratchet).