

INDAM MEETING:  
**HYPERBOLIC DYNAMICAL SYSTEMS  
IN THE SCIENCES**

CORINALDO (ITALY)  
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**Mixing time-changes of parabolic flows**

In this talk we will focus on some of the ergodic properties of parabolic flows and their time reparametrizations. We will mention mixing properties of flows on surfaces and then concentrate on another fundamental example of parabolic dynamical systems, Heisenberg nilflows. The latter are flows on quotients of the Heisenberg group and it is well known that they are not mixing. We show that there is a set of time changes so that the corresponding reparametrizations are mixing. This set is generic in an appropriate sense and can be explicitly described.

(Joint work with A. Avila and G. Forni)