



# CMMA Monthly Seminar

## 第 22 回 CMMA 月例セミナー

講師：俣野博

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In this talk I will consider reaction-diffusion equations on the hyperbolic space  $H^n$ . Unlike the Euclidean space, which is flat, the hyperbolic space is a space that is warped with constant negative curvature. Our goal is to understand the effect of the curvature on the behavior of solutions. More specifically we consider solutions with localized initial data, and study how the solution fronts spread over the space; in particular, we will discuss how the curvature of the space affects the spreading speed of the fronts. The talk is focused mainly on scalar reaction-diffusion equations, but I will also discuss briefly predator-prey models on such spaces.

This is partly joint work with Fabio Punzo and Alberto Tesei.

"Front propagation in  
nonlinear diffusion equations on  
the hyperbolic space"

日時：2018 年 1 月 25 日（木） 16:30-17:30

場所：明治大学 中野キャンパス高層棟 6 階 研究セミナー室 3

主催：

文部科学省 共同利用・共同研究拠点  
明治大学先端数理科学インスティテュート  
現象数理学研究拠点 (CMMA)



■連絡先

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