

Oberseminar Geometrie	Wednesday 9th October 2013
Department of Mathematics	10:20–12:00
University of Fribourg	Seminar room, Math. II (Lonza)

CAMILLE PETIT (Fribourg)

‘Boundary behavior of harmonic functions on Gromov hyperbolic graphs and manifolds.’

The study of nontangential convergence of harmonic functions goes back to P. Fatou’s seminal paper (1906), where the following is proved:

Any positive harmonic function on the unit disk admits nontangential limits at almost every point of the boundary circle. In this talk, I will explain how nontangential convergence criteria for (non necessarily positive) harmonic functions can be proved on Gromov hyperbolic graphs and manifolds.