Department of Mathematics, BGU

Colloquium

On *Tuesday, March ,24 2015*

At *14:30 − 15:30*

In *Math 101-*

Asaf Nachmias (Tel Aviv)

will talk about

Unimodular hyperbolic planar graphs

   Abstract: We study random hyperbolic planar graphs by using their circle
packing embedding to connect their geometry to that of the hyperbolic plane.
This leads to several results: Identfiication of the Poisson and geometric bound-
aries, a connection between hyperbolicity and a form of non-amenability, and a
new proof of the Benjamini-Schramm recurrence result. Based on works with
subsets of Omer Angel, Martin Barlow, Ori Gurel-Gurevich, Tom Hutchcroft and
Gourab Ray.