

PHILADELPHIA AREA TOPOLOGY
(CONTACT & HYPERBOLIC)

supported by Bryn Mawr, Haverford, and Temple

Roland van der Veen

University of Amsterdam

will speak on

Dimers and the volume conjecture for planar graphs

ABSTRACT: In this talk we introduce the volume conjecture that proposes to connect the Jones polynomial of a knot to the hyperbolic geometry of its complement. We'll show that essentially the same conjecture also makes sense for planar graphs. This allows us to aim to connect the conjecture to the asymptotics of perfect matchings, also known as the dimer model from statistical mechanics.

TUESDAY, 6 OCTOBER 2009

LECTURE AT 5:00 PM

ROOM 337, PARK SCIENCE BUILDING

BRYN MAWR COLLEGE