BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

DIFFERENTIAL ALGEBRA OF CUBIC GRAPHS

Roger Casals
MIT

April 5, 2017, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: In this talk we will associate a combinatorial dg-algebra to a cubic planar graph. This algebra is defined by counting binary sequences, which we introduce, and we shall provide explicit computations. From there we study the Legendrian surfaces behind these combinatorial constructions, including Legendrian surgeries and the count of Morse flow trees, and discuss the relation to microlocal sheaves, spectral networks and framed BPS states.

See `http://math.bu.edu/research/geom/seminar.html` or contact Lino Amorim (*lamorim@bu.edu*) or Siu Cheong Lau (*lau@math.bu.edu*) for more information.