

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

FOURIER DUALITY FOR HIGHER ABELIAN GAUGE THEORIES

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Dec 3, 2014, 4:00 – 5:00pm
Math/Computer Science, Room148
111 Cummington Street, Boston

Tea: 3:45pm in Room MCS 144

Abstract: Dualities between quantum field theories motivate several interesting conjectures in mathematics. In the case where the theories are free these dualities admit a natural description as instances of a Fourier transform between theories interchanged by Hodge duality. By understanding this description, we find that the question “what is a duality, mathematically” has an interesting and somewhat subtle answer even in the case of free theories.

See <http://math.bu.edu/research/geom/seminar.html> or contact Ryan Grady regrady@math.bu.edu for more information.