

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

ABELIAN DUALITY AT LEVEL K

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April 10, 2013, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: In three dimensions, an abelian gauge field is related by duality to a free, periodic scalar field. Though usually considered on Minkowski (or Euclidean) space, this duality can be extended to a general three-manifold M , in which case topological features of M become important. In this talk, I will examine several such features, especially as related to the algebra of operators on a surface of genus g . I will also clarify certain aspects of duality for Maxwell-Chern-Simons theory at level k .

See <http://math.bu.edu/research/geom/seminar.html> or contact Si Li sili@math.bu.edu for more information.