

Daniel Drimbe

UC San Diego

Prime II_1 factors arising from irreducible lattices
in products of rank one simple Lie groups
(joint with D. Hoff and A. Ioana)

In this talk I will present joint work with Daniel Hoff and Adrian Ioana in which we obtain that II_1 factors associated to icc irreducible lattices in products of simple Lie groups of rank one are prime, i.e. they cannot be decomposed as a tensor product of II_1 factors.

This gives the first examples of prime II_1 factors arising from lattices in higher rank semisimple Lie groups.

We obtain this by describing all tensor product decompositions of $L(\Gamma)$ for icc groups Γ that are measure equivalent to a product of non-elementary hyperbolic groups.