DIFFERENTIAL GEOMETRY/PDE SEMINAR

Friday, June 16, 2006
Padelford C-36
2-3 pm

Generalized connected sum construction for constant scalar curvature metrics

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We consider the problem of constructing solutions to the Yamabe equation (i.e. conformal constant scalar curvature metrics) on the generalized connected $sum M = (M_1) \#_K (M_2)$ of two compact Riemannian manifolds (M_1, g_1) and (M_2, g_2) along a common (isometrically embedded) submanifold (K, g_K) of codimension greater or equal than 3.