

# DIFFERENTIAL GEOMETRY/PDE SEMINAR

FRIDAY, JUNE 16, 2006

PADEL FORD 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.

For more information about this seminar, visit the DG/PDE Seminar Web page (from the Math Department home page, [www.math.washington.edu](http://www.math.washington.edu), follow the link **Seminars, Colloquia, and Conferences**).

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