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Russell Brown, Seick Kim and Katharine Ott* (kott@bates.edu). *The mixed problem for the linear Stokes system in domains in the plane.*

In this talk I will discuss recent work on the mixed boundary value problem for the linear Stokes system in a Lipschitz domain in two dimensions. The first step is to construct a Green function for the linear Stokes system in this setting. The construction of the Green function will impose conditions on the decomposition of the boundary of the domain into Dirichlet and Neumann sets. (Received January 15, 2015)