

A flexible and fast package for boundary integral equations in two dimensions

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The solution of certain elliptic partial differential equations (Laplace, Stokes, Helmholtz, etc.) provides one of the primary building blocks necessary for the study of a wide range of physical problems. For simple domains, the solution of these equations is trivial. On complex domains, this is not the case, and many researchers have depended on methods that are slow, inaccurate, or both. This library aims to provide a family of simple to use routines which enable non-experts to use fast and accurate algorithms for solving these kinds of problems in two spatial dimensions.

Presenter: STEIN, David

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