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*On stable transfer operators and functorial transfer kernels*

Langlands introduced stable transfer operators as a fundamental part of his proposal of Beyond Endoscopy. They are intended to be used in comparisons of his proposed refinements of stable trace formulas, in an analogous role to that of endoscopic transfer operators in the theory of Endoscopy. The existence of stable transfer operators for real groups is readily established, but there remains the problem of obtaining explicit formulas for their distributional kernels, the so-called stable transfer factors or functorial transfer kernels. We will discuss stable transfer between tori, complex groups, and work in progress on stable transfer from real groups to tori, which would include a generalisation of the Gelfand-Graev formula for stable discrete series characters of  $SL(2)$ .