

## Wrapping maps and heat kernels on compact symmetric spaces

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The wrapping map is a global version of the Duflo isomorphism, which allows one to transfer distributions of compact support on the Lie algebra of a compact group, to the group itself, so that the convolution of central distributions is preserved. One can use this map to transfer Brownian motion and other stochastic processes from Lie algebras to Lie groups, and in particular, allows one to find formulae for the heat kernels on compact groups.

A generalisation of the wrapping map can be made to compact symmetric spaces, where the Rouvière  $e$ -function comes into play. I will show how to use these ideas to transfer heat kernels and other operators from flat space (the tangent space of a compact symmetric space) to the symmetric space.