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Ron Kerman* (rkerman@brocku.ca), Mathematics Department, Brock University, St. Catharines, Ontario L2S 3A1, Canada. *Hardy Operators, Interpolation and Sobolev Imbeddings*.

The methods of Interpolation Theory allow one to reduce Sobolev imbeddings in the context of rearrangement invariant spaces to the boundedness of a certain Hardy operator H . The operator H can then be used to construct optimal target and domain spaces. This is joint work with Lubos Pick. (Received February 07, 2006)