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Robert W Donley* (rdonley@citytech.cuny.edu), Department of Mathematics, NYC College of Technology (CUNY), 300 Jay Street, New York City, NY 11201. *Schur Orthogonality Relations Revisited*. Preliminary report.

Schur orthogonality relations play a fundamental role in representation theory, in particular when studying square-integrable functions on a group with invariant measure. The traditional proof requires averaging on the group, but one may recast the result using tensor products and intertwining operators. We survey examples and applications where square-integrability does not apply. (Received August 15, 2013)