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Zaher Hani* (hani@cims.nyu.edu), New York, NY 10012. *Oscillatory integrals related to eigenfunction and Strichartz estimates on compact manifolds.*

We consider some oscillatory integral operators that are motivated by parametrix expressions for eigenfunctions or solutions to linear dispersive PDE on compact manifolds without boundaries. We also discuss some applications to well-posedness problems in nonlinear PDE. (Received August 26, 2011)