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Katharine Ott* (kott@bates.edu), **Russell Brown** and **Peter Perry**. *Action of a scattering map.*

We consider a scattering map that arises in the $\bar{\partial}$ approach to the scattering theory for the Davey-Stewartson II equation and show that the map is an invertible map between certain weighted L^2 Sobolev spaces. (Received July 06, 2016)