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Olivier Pinaud* (pinaud@math.colostate.edu). *Kinetic models for imaging in random media.*

We will present some transport models for the reconstruction of inclusions in strongly heterogeneous media. These models are based on quadratic quantities in the wavefield that are expected to be more statistically stable than the wavefield itself. Numerical simulations validating the theory will be presented. (Received September 05, 2014)