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Migration under velocity uncertainty: impulse responses of the operators

Lin Zhang[1]

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ABSTRACT

Under the assumption that the probability density functions of the velocities are known, and are spacially invariant, two optimal migration operators are formulated. For flat events, the operators give the same responses as does the Stolt migration operator. As the dips of the events increase, the operators gradually attenuate the high frequency content of the events while keeping the low frequency energy of the events unchanged.

[1]**email:** not available