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# Debye-scale electrostatic waves across quasi-perpendicular shocks

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## Abstract

The evolution of the properties of short-scale electrostatic waves across collisionless shocks remains an open question. We use a method based on the interferometry of the electric field measured aboard the magnetospheric multiscale spacecraft to analyze the evolution of the properties of electrostatic waves across four quasi-perpendicular shocks, with  $1.4 \leq M_A \leq 4.2$  and  $66^\circ \leq \theta_{Bn} \leq 87^\circ$ . *Most of the analyzed wavebur-*

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