

## **Approximate computation of an eigenwave from measurements of its amplitudes at a given point**

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### **Abstract**

Under the assumption that the variables in the wave equation can be separated and its coefficients are periodic, we develop a classification of seismic eigenwaves and use it to answer some questions as to how to specify the type and basic parameters of a wave on the basis of measurements of amplitudes, whether there exist points of chaos, and how to predict them. © 2014 Pleiades Publishing, Ltd.

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