

**SEMICLASSICAL ANALYSIS OF ELASTIC SURFACE
WAVES AND INVERSE PROBLEMS**

Speaker: Jian Zhai
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Time: Wed, July 1, 10:00-11:00

Venue: Zoom: 618-038-6257, Password: SCMS

Abstract: We present a semiclassical description of surface waves traveling in stratified elastic medium. This semiclassical perspective is known to the geophysical community as the slow variational principle, and its mathematically rigorous framework was proposed by Colin de Verdiere (for acoustics). I will also talk about related inverse spectral problems, that are to use the dispersion relations of surface waves to explore the subsurface structure.