I128-007 Room: 201A Time: May 28 13:45-14:00

## Vp/Vs raitio and minerals in the transition layer

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Mineral composition of the upper mantle and the transition layer is discussed. The discussion is made using Vp/Vs ratio of the elastic wave velocities. The Vp/Vs ratio of the seismic wave distributions in the mantle are carefully estimated. The Vp and Vs models in the mantle are derived inndependently,so to get the accurate estimation of Vp/Vs ratio in the mantle Vp and Vs models must be chosen very carefully.

Recent advancement of seismic studies has made acurate estimation of Vp/Vs ratio possible.

Recent experiments on elastic wave velocities of mantle minerals have made possible to compare the Vp/Vs ratio in the mantle with those of mimantle minerals.

The comparison made in this study shows the mineral composition in the upper mantle is peridotitic, and that in the transition-layer is eclogitic.