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## LUNAR STRUCTURE AND CLEMENTINE DATA : TEST OF A TECTONIC INVERSION SCHEME

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Generalyzing Clairaut equation leads to the expression of the gravity field, topographies of interfaces, and density lateral variations as functions of the stress tensor field. This is done without any rheological law. If the stress field is supposed to have certain regularities, this leads to an inversion scheme of global data that relies on the determination of the state of stress. We will show the results of the corresponding inversion of Clementine mission topography and gravity data, the main one being that lateral variations of density are needed, in the crust as well as at the top of the mantle, to explain the observed gravity field.

### Submittal Information

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5. Invited talk

### Abstracts to be submitted on or before December 15, 1997 to

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