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Review #3

PROPOSAL NO.: 0417929
INSTITUTION: U of Colorado Boulder
NSF PROGRAM: GEOPHYSICS
PRINCIPAL INVESTIGATOR: Ritzwoller, Michael H
TITLE: Collaborative Research: CMG: Uncertainty and Physical Constraints in Seismic Inferences
RATING: Good

REVIEW:
What is the intellectual merit of the proposed activity?

This cross-disciplinary research proposal involves applied statistics and seismology. The proposed research is divided into five thematic areas mainly concentrating on inversion problems. Two of the themes are primarily on seismology, one of them focusing on federation of data from different sources. These two themes will be the responsibility of the Colorado University team. One of the remaining three themes is primarily on mathematical statistics and will be the responsibility of the University of Berkeley team. This part of the proposal focuses on statistical inference on separable Banach spaces. The remaining two themes focus on collaborative research.

Proposed methods of research are noticeably missing here. Some indication of the methods to be employed would have been helpful. Management plan is bit vague.

What are the broader impacts of the proposed activity?

The project will allow for graduate and undergraduate training in cross-disciplinary work. Some of the techniques should be useful in other sciences as well.

Summary Statement

I am unable to judge the impact of this on seismological research.

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