

**ROYAUME DU MAROC**  
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**INSTITUT SCIENTIFIQUE**  
**RABAT**

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**To Prof. William Menk (Columbia university), and Dr Vadim Levin**  
**(Yale university)**  
**Subject: Cooperative study for the Seismological Study of the**  
**Lithosphere and Upper Mantle in Morocco**

Department of the Physics of the Earth (DPE) of the Scientific Institute Mohamed V University of Rabat (Morocco) will be pleased to participate actively to this project.

We are interested by the structure of the lithosphere beneath the Atlas mountains, Rif Mountains and adjacent plateaus. Recent studies of the deep structure used analogue data from the DPG seismological network (see attached map). Based on three permanent observatories and three additional stations, earthquakes are currently recorded, processed in our Department, and are included in the database of the International seismological centres.

Three observatories (IFR, TIO, AVE) and three others sites (TAF, NKM) and (ANTZ in the Sahara shield) may be candidate for the five expected seismic stations of the project.

Three researchers are interested by the project:

-Mimoun Harnafi (harnafi@israbat.ac.ma), Head of the Department, interested by the installation techniques, procedure and signal processing.

-Faïçal Ramdani (framdani@yahoo.com), is currently working on the structure of the lithosphere related anisotropy, Atlas delamination process and styles of structure associated with the opening of the Atlantic.

- Fida Medina (medina@israbat.ac.ma) geologist from the department of geology, member of the Moroccan Trias group.

Since the project will be accepted by NSF, it is necessary for both Universities (Columbia and Yale) to sign with the Scientific Institute of Rabat, a convention of cooperation to made easily the next working steps (field recordings, authorisation, etc..).

M. Harnafi  
Head of the Department

M. HARNAFI  
Dep. Physique du Globe  
Signé : 

