VIRGO Science Proposal C2
Absolute radiometry with the PMO6-V and DIARAD radiometers

Main Investigator

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Objectives

Realisation of the radiometric scale in space using the four sensors of the VIRGO package. Traceability to the World Radiometric Reference (WRR).

Work plan

From the beginning of the mission, the data from the radiometers PMO6-V and DIARAD must be compared at all possible timescales (from the individual simultaneous measurements, to mean values on periods TBD). A strategy must be adopted for both types of sensors in order to monitor their degradation with their backup instrument. Consistency among a type and among PMO6-V and DIARAD must be checked in the course of time.

Outstanding problems

The analytical profile depends on the complexity of the model used. We should start with a simple profile, and increase the complexity if the detection is successful. Other data sets could be used such as those from GOLF or the SPMs. In this latter cases, the detection will be more difficult because the modes are blended.

Responsibilities

D. Crommelynck and J. Romero are responsible respectively for DIARAD and PMO6-V.