PRINCIPAL PROBLEMS OF LUNAR SEISMIC SEARCH PROGRAM

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In conformity to a level of knowledge and understanding of seismic state of the Moon the Program should give the answer on an internal structure, especially central zone and / or an internal corn; to ensure the knowledge of own (free) oscillations of Moon (FMO) high precision spectra and construction on these spectra of model of the Moon including geological sections. Reception of seismogram library on quality considerably surpassing seismic data given by the seismic networks "Apollo" is simultaneously necessary.

Such work contains basic difficulties which are analyzed on the basis of the models of the Moon received as a result of Russian researches.

The modern model of an internal structure of the Moon includes existence of strong indignations of a surface of an internal corn. Accordingly there is a significant and unpredictable corner $\Delta\theta^0$ between seismic beams reflections of a seismic beam from real border of a corn and from assumed spherical. Therefore the basic problem is not the organization of probing impact on the Moon day surface and identification on seismogram marks of the seismic waves reflected from borders of an internal border.

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