

SELECTION OF STATION.

When it was decided to swing the pendulum^s at the Jesuit Astronomical Observatory in Manila, P. I., there was, in addition to usual considerations that must be taken into account, in the selection of any gravity station, the added consideration that there had, in years gone by, been an absolute determination there at the observatory by an Italian scientist and it was desirable to have the pendulums swung in the redetermination, by the relative method, as nearly as possible in the same place as the old determination had been made. Some doubt exists as to whether the determination was made in the dark room or in the seismograph room adjacent to it.

A trip to the observatory and a study of all the available places for swinging the pendulums was made and it was found that the dark room was best suited to the needs and requirements of the present work. As this was either the exact site of the former determination or, at most, no more than four meters from it, it is believed that the two determinations may safely be considered to have been made in the same place.

THE PENDULUM ROOM.

The pendulum room has a tile floor on a concrete base resting directly upon the ground. Thus the pendulum receiver can be mounted low thereby lessening the chances of rocking. The pendulum room is surrounded by thick masonry walls and is therefore very closely a constant temperature room. A thermograph placed in the room for a week during the time occupied in setting up the apparatus and making a practice swing showed a maximum