Oscillations du Soleil et modèles théoriques, A. BOURY, M. GABRIEL, A. NOELS, R. SCUFLAIRE, Institut d'Astrophysique, Université de Liège.

Hill and his coworkers at the Santa Catalina (Ariz.) Mountain Observatory have currently a programme of observations of periodic variations of the solar diametre. This programme has yielded a number of periods going from more than 1 hour to a few minutes. These observations are very interesting as the comparison between observed and computed periods could furnish a test for theoretical models and, in particular, it could allow to discriminate between solar evolutionary schemes proposed to overcome the solar neutrino difficulty. The Liège group has performed theoretical calculations for the solar standard model and for a solar model obtained through an evolution with recurrent mixings, to compare their periods with those observed.