

The Hebrew University of Jerusalem , Condensed Matter Seminar

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Graching**

Danciger B Building, Seminar room

"Recent progress in determination of fundamental constants"

Every four years, CODATA task group on fundamental constants presents the tables of recommended values of the fundamental physical constants. Recently CODATA-2010 recommended values were published.

I briefly analyze the new recommended values as well as new original data, on which the recommendation is based. To facilitate the consideration, the data are subdivided into several groups. New original theoretical and experimental results are discussed for each group separately. Special attention is paid to experimental and theoretical progress in the determination of the Rydberg constant, the electron-to-proton mass ratio, the fine structure constant, the Planck constant, the Boltzmann constant, the gravitation constant, and the anomalous magnetic moment of the muon.