

Exact calculations for deformed proton emitters

E. Maglione
Dipartimento di Fisica “G. Galilei”
Via Marzolo 8
Università di Padova, Padova
Italy

The absolute decay width of a single-particle level in a deformed potential is evaluated exactly. Experimental data are analysed by using this formalism. It is found that proton decay is a powerful tool to determine the deformation of nuclei as well as to probe small components of the wavefunctions of the decaying states.