QUASI-STURMIAN FUNCTIONS IN THE CONTINUUM SPECTRUM PROBLEMS

M. S. ALESHIN, S. A. ZAYTSEV, G. GASANEO, L. U. ANCARANI

Quasi Sturmian (QS) functions are proposed as an expansion basis to describe continuum states of a quantum system. A closed analytic representation of QS functions is derived. A two-body scattering example is given to demonstrate advantages of the method.