Contribution ID: 8 Type: not specified

Supersymmetric Expansion Algorithm: from heavy quarkonium to dark matter

Content

In this talk we review a novel procedure to obtain for the first time analytical solutions to the non-relativistic dynamics of several quantum systems of present interest, ranging from condensed matter to heavy quarkonium and to dark matter. We focus on a detailed analysis of the complete solutions for heavy quarkonium dynamics based on the Cornell potential which yields outstanding predictions for charmonium and bottomonium which nicely agree with data.

Summary

Primary author(s): Prof. NAPSUCIALE, Mauro (Guanajuato University)

Presenter(s): Prof. NAPSUCIALE, Mauro (Guanajuato University)