



LBNL Nuclear Physics Forum

Tuesday, March 20, 2018 @ 2:00 pm

Building 88 Lounge (2nd floor)

Cookies and coffee available from 1:45pm

Dr. Rodolfo M. Id Betan

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“Calculation of the $3/2^+$ resonance pole of ^5He and its shadow companion in the Berggren basis”

In the two coupled-channel model the poles of the scattering S-matrix may lying in any of the four Riemann sheets. In this talk I am going to show how to get all pole of the S-matrix using complex energy representation (Berggren basis). A first application to the exactly solveble coupled-channel Cox potential will be shown. The second application will be to calculate the normal and shadow pole of the $3/2^+$ resonance pole of ^5He ; for this system I will show how one of the pole migrates between different Riemann sheets.

