

Pole structure and compositeness for a (near-threshold) state

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We elaborate on the compositeness relation for poles in the two-body scattering amplitudes, and discuss different methods to calculate the compositeness of a resonance and bound state. We study in detail the case of validity of the effective-range expansion for near-threshold poles and its limitations, providing then a more general parameterization from S-matrix theory. The application of these results to different states is also discussed.

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