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Theory of hadron resonances

The quest of unraveling the nature of excited hadrons necessarily involves determination of universal —reaction independent —parameters of these states. Transition amplitudes encoding such parameters can be constrained using symmetries of QCD through, e.g., the use of Effective Field Theories, experimental measurements or numerical approaches through lattice QCD.

This three-fold synergetic approach, indeed provides the most promising approach to the hadron spectrum and has already led to an enormous knowledge increase. In my talk, I will review the current state of the art and show several recent examples of large interest. An increased focus will be put on the development and applications of the novel methodology accessing states with large three-body content.

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