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Excited Hadrons on the Lattice

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It took more than 40 years until Lattice QCD tools have become evolved far enough to address excited hadrons in a reliable way. Still, we are confined to the low lying resonances with a few coupled two-hadron channels, mostly in the meson-meson sector. Phase shifts at a few energy values for simple system have been determined in this first principles approach. Meson-nucleon results are scarce. The theory for decay channels with more than two hadrons is becoming ready, the practical applications are progressing. Comparison of lattice results with model calculations are helpful. I will survey what has been done and how.

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