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Coupled-channel effects in heavy hadrons

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Heavy meson spectroscopy was very well described in terms of $Q\bar{Q}$ states since the discovery of the J/ψ in 1974 up to the discovery of the $X(3872)$ in 2003. However the intriguing properties of this meson made evident that higher Fock components were necessary to describe heavy hadron spectroscopy for excited states. The inclusion of two hadron components induce coupled-channel effects that can have important consequences. One example is the deviations from predictions given by well known symmetries like heavy quark spin symmetry (HQSS) or heavy flavour symmetry (HFS) that are due to differences in the relative positions of two hadron thresholds and bare $Q\bar{Q}$ states. In this contribution I will review the most important effects due to coupled channels in the heavy hadron spectrum.

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