Allgemeines Physikalisches Kolloquium
Donnerstag, 05.12.2019 um 16 Uhr c.t.

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Surprises in Hadron Spectroscopy

Although the underlying theory QCD is well established, its strong dynamics continues to bring surprises. New unexpected states have appeared since 2003 in increasing frequency. Many theoretical models have been proposed to explain these new states. Some of these new states are wide (have large decay widths) or have not yet confirmed by multiple experiments and hence are hard to interpret theoretically. However, strong theoretically arguments now suggests that additional very narrow states are still to be observed.

I will discuss hadron spectroscopy from before QCD to the present day and argue that much is still to be learned about QCD strong dynamics.