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## Hadron dynamics with vector mesons: matching theory and experiment to identify new resonances and their nature

*Monday 3 February 2014 09:30 (30 minutes)*

In this talk I shall address chiral dynamics and its extension to the vector sector with the local hidden gauge approach. I shall show how some resonances are dynamically generated in the approach from meson meson and meson baryon interactions. Then will address two very recent reactions,  $\gamma p \rightarrow K^0 \Sigma^+$ , with its peculiar energy dependence close to the  $K^* \Lambda$  threshold, from where we deduce evidence of one of the baryon resonances predicted before, around 2030 MeV. Then I shall address the  $J/\psi \rightarrow \eta K^+ K^{*-}$  from where we find evidence of a  $h_1$  resonance around 1830 MeV, also predicted from the vector vector interaction. Some short review of the status of the molecular states in the charm and beauty sectors will follow.

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