

## Exotic Baryon Resonances in P P Interactions With The

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### Exotic Baryon Resonances in P

Exotic baryons are a type of hadron (bound states of quarks and gluons) with half-integer spin, but have a quark content different from the three quarks (qqq) present in conventional baryons. An example would be pentaquarks, consisting of four quarks and one antiquark (qqqq $\bar{q}$ ). So far, the only observed exotic baryons are the pentaquarks P + c (4380) and P +

### Exotic baryon - Wikipedia

A search for baryon resonance states with exotic quantum numbers was performed in p+p interactions at 158 GeV beam energy with the large acceptance NA49 detector at the Cern SPS. A narrow  $\Xi^{*0} \rightarrow \Sigma^0 \pi^0$  baryon resonance with mass of  $1.862 \pm 0.002$  GeV/c<sup>2</sup> and width below the detector resolution of  $\approx 0.018$  GeV/c<sup>2</sup> is observed.

### Exotic baryon resonances in p + p interactions with the ...

The LHCb experiment has observed two new exotic resonances in the J /  $\psi$  p channel, a broad one with mass  $4380 \pm 8 \pm 29$  MeV, width  $205 \pm 18 \pm 86$  MeV, and statistical significance 9 $\sigma$ , and a narrower one with mass  $4449.8 \pm 1.7 \pm 2.5$  MeV, width  $39 \pm 5 \pm 19$  MeV, and statistical significance 12 $\sigma$ .

### Photoproduction of exotic baryon resonances - ScienceDirect

A search for baryon resonance states with exotic quantum numbers was performed in p+p interactions at 158 GeV beam energy with the large acceptance NA49 detector at the Cern SPS. A narrow  $\Sigma^{*+} \rightarrow \rho^+ p$  baryon resonance with mass of  $1.862 \pm 0.002$  GeV/c<sup>2</sup> and width below the detector resolution of  $\approx 0.018$  GeV/c<sup>2</sup> is observed.

### Exotic baryon resonances in p + p interactions with the ...

However, in the charm sector, the astonishing observation of P c states by the LHCb Collaboration [34,35] has provided us an insightful place to study the exotic baryons in the charm sector, the ...

### (PDF) Photoproduction of Exotic Baryon Resonances

We point out that the new exotic resonances recently reported by LHCb in the J /  $\psi$  p channel are excellent candidates for photoproduction off a proton target. This test is crucial to confirming the resonant nature of such states, as opposed to their being kinematical effects.

### Photoproduction of exotic baryon resonances - NASA/ADS

We then generalize it to other systems containing two heavy hadrons which can couple through isospin exchange. The new predicted states include resonances in meson-meson, meson-baryon, baryon-baryon, and baryon-antibaryon channels.

### New Exotic Meson and Baryon Resonances from Doubly-Heavy ...

The baryon resonances are exotic in the sense that they cannot be described as the three quark system and can be fitted as the pentaquark baryons to the baryon antidecuplet [4] although some authors [5] have argued

### Magnetic Moments of Baryons and Exotics in Quasi Particle ...

of conventional and exotic components. The situation has changed since the begin-ning of the millenium, as higher energies became available in the experimental fa-cilities giving access to the heavy flavored meson and baryon resonance region [20]. Many of the new XYZ meson resonances produced could not be explained as hav-

### arXiv:2009.04367v1 [hep-ph] 9 Sep 2020

Like all particle states, exotic mesons are specified by the quantum numbers which label representations of the Poincaré symmetry, q.e., by the mass (enclosed in parentheses), and by J PC, where J is the angular momentum, P is the intrinsic parity, and C is the charge conjugation parity; One also often specifies the isospin I of the meson.

### Exotic meson - Wikipedia

So far, in the light quark section, the dynamically generated baryon resonances have been found only in the interaction of the octet of stable baryons with the octet of pseu- doscalar mesons in L = 0, leading to J P = 1/2 - [3,4,6,7] and in the interaction of the

### A resonant $\Delta K$ state as a dynamically generated exotic baryon

Severa Theta+ exotic baryon candidates have recently been identified using data from the JINR propane bubble chamber. The p K0s invariant mass spectrum shows seven resonant structures ranging from ...

### Exotic narrow resonance searches in the systems $\Sigma K_s^* 0 p$ ...

We then generalize it to other systems containing two heavy hadrons which can couple through isospin exchange. The new predicted states include resonances in meson-meson, meson-baryon, baryon-baryon, and baryon-antibaryon channels.

### New Exotic Meson and Baryon Resonances from Doubly Heavy ...

Photoproduction of Exotic Baryon Resonances Marek Karlinerayand Jonathan L. Rosnerb z a School of Physics and Astronomy Raymond and Beverly Sackler Faculty of Exact Sciences Tel Aviv University, Tel Aviv 69978, Israel b Enrico Fermi Institute and Department of Physics University of Chicago, 5620 S. Ellis Avenue, Chicago, IL 60637, USA ABSTRACT

### Photoproduction of Exotic Baryon Resonances

The relevant threshold is at 4398.5 MeV. As in the case of the 4140 MeV meson, Ref. finds that coupled channels contribute to dynamical generation of exotic baryon resonances. If such a  $\Lambda c D^+ s^+$  resonance does exist, its best chance of being formed is in  $\Lambda b$  decay. The decay  $\Lambda b \rightarrow \Lambda c D^+ s^+$  is Cabibbo favored.

### Exotic resonances due to $\eta$ exchange - ScienceDirect

have been found as baryon resonances. Therefore, from the following expressions of the total cross sections exotic channels (i.e., in which two-body resonances have not been found), and  $6 T(n+n^+) = P_{..} 2 + (F_{..} 2 \cdot R_{..}) s^{-1} 1 2 , 6 p(K+n^+) = P_x P_{..} + (F_x F_{..} R_x R_{..}) s^{-1} 1 2 , () T(K+ K^+ D) = P_x 2 + (F_x 2 \cdot O_x 2$

### Inclusive Reactions in the Regge Pole Model and Exotic ...

Time delayed K+ N reactions and exotic baryon resonances . By N G Kelkar, M Nowakowski and K P Khemchandani. Abstract. Evidences and hints, both from the theoretical and experimental side, of exotic baryon resonances with B=5, have been with us for the last thirty years. The poor status of the general acceptance of these Z<sup>+</sup> resonances is partly ...

### Time delayed K+ N reactions and exotic baryon resonances ...

Search for Exotic Baryon Resonances at NA49. Kreso.Kadija@cern.ch 1 Jefferson Lab., November 2003. The NA49 Collaboration. Kreso.Kadija@cern.ch 1 Jefferson Lab., November 2003.