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$\Xi^{-}\pi^{+}$ baryon resonance with mass of $1.862 \pm 0.002 \text{ GeV}/c^2$ and width below the detector resolution of $0.018 \text{ GeV}/c^2$ is observed. This state is identified as a candidate for the hypothesized exotic ...

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width below the
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 $0.018 \text{ GeV}/c^2$
is observed.

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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 ...

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has observed two new exotic resonances in the $J/\psi \rightarrow p$ channel, a broad one with mass $4380 \pm 8 \pm 29$ MeV, width $205 \pm 18 \pm 86$ MeV, and statistical significance 9σ , 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 12σ .

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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

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Fermi Institute and

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University of Chicago,

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Resonances

Exotic baryons are a

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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

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pentaquarks P^+ .

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$I > \text{ or } = 5/2$. Full

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scattering lead to the possible existence of baryon resonances with isospins $I > \text{or} = 5/2$.

Possibility of existence of exotic baryon resonances with ...

Abstract. Some possible suggestions for detecting exotic anti NN resonances are reviewed including the size of Reggeon-exchange

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contributions to
baryon--anti baryon
total cross sections, the
smallness of S-wave
annihilation rates, and
the goodness of
asymmetry description
of N anti N
annihilations at rest.

Exotic N anti N
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poor status of the
general acceptance of
these Z resonances is
partly due to the
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quark baryons and
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Zhang, Liming
(Tsinghua U., Beijing,
CHEP) Collaboration

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LHCb: Imprint 10 p. In:
J. Univ. Sci. Tech.
China 46 (2016)
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We predict several new
exotic doubly heavy
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observed exotic
bottomoniumlike and
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states $X(3872)$,
 $Z_{\{b\}}(10610)$,
 $Z_{\{b\}}(10650)$,
 $Z_{\{c\}}(3900)$, and

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$Z_{c}(4020/4025)$. We interpret the binding mechanism as mostly molecularlike isospin-exchange attr

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Evidences and hints,
both from the
theoretical and
experimental side, of
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Resonances with $B = S$,
have been with us for
the last thirty years. The
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quark baryons and
partly due to the
opinion that a proof of
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states must be rigorous.

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reactions and exotic
baryon resonances ...

$J^P = 3/2^-$, hence, an
exotic baryon which
qualifies as a
pentaquark in the quark
language, but which is
more naturally
described in terms of a
resonant state of a
and a K . The lowest
order chiral Lagrangian
for the interaction of the

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baryon decuplet with the octet of pseudoscalar mesons is given by [16]

$$L = iT^{-1} \mu D / T \mu - m T T^{-1} \mu T \mu \quad (1) \text{ where } T \mu$$

A resonant K state as a dynamically generated exotic baryon

Exotic Ω_c^0 baryons from meson-baryon scattering.

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