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variety of  
theoretical  
approaches,  
ranging from low-  
energy QCD  
dynamics, chiral  
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theory, and meson and baryon phenomenology, to the effects of hot and dense nuclear matter. Fruitful crosslinks between these topics had become clear in the recent past. These proceedings form

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03. 2016 4 / 76.

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Electrodynamics  
(QED) Basic  
interaction  
vertex in QED.

Photon does not  
carry charge,  
photon-photon  
interaction only  
happens at  
higher orders.

Coupling  
constant is  
small, great

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success of  
perturbation  
theory  $\alpha \approx 1/137$  =)  
E.g., the  
electron  
magnetic moment.

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Theories for  
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Heavy hadron  
molecules were  
first theorized

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from a crude analogy with the deuteron and the nuclear forces binding it, a conjecture which was proven to be on the right track after the discovery of the  $X(3872)$ .

However, this analogy with nuclear physics



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has not been seriously exploited beyond a few calculations in the two- and three-body sectors, leaving a great number of possible theoretical consequences unexplored.

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molecules in  
effective field  
theory: the ...**

There emerge  
basically two  
principally  
different types  
of effective  
hadron theories  
reflecting the  
alternative (but  
at the same time  
dual) pictures

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of baryons:  
baryons as  
chiral  
(topological)  
solitons of the  
meson fields and  
as bound states  
of quarks and  
diquarks. It is  
demonstrated  
that these two  
pictures  
describe only  
two sides of the

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same medal.

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In this regard  
the application  
of effective

field theory 2002  
(EFT) ideas to

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the theoretical exploration of molecular states has been indeed a welcomed addition. The study of hadronic molecules began as an offspring of nuclear physics. The most systematic attempts to

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Understand them  
have been indeed  
based on nuclear  
physics,  
including

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molecules in  
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Effective Field  
Theories in

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Vadim Lensky  
Theoretical  
Physics Group,  
The University  
of Manchester

January 11, 2013

V. Lensky EFTs in  
Hadron and

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We review recent advances in the understanding of the Quantum

Chromodynamics (QCD) transition and its nature, paying special attention to the analysis of chiral symmetry restoration

within different approaches based

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on effective theories. After presenting some of the main aspects of the current knowledge of the phase diagram from the theoretical, experimental and lattice sides, we discuss some

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hadron physics  
is the close  
contact between  
experiment and  
theory by  
competing and  
supporting each  
other in the  
endeavor to  
reach a higher  
accuracy in the  
theoretical and  
experimental  
determination of

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observables and, in general, to obtain a better understanding of the structure of hadrons.

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Physics and ...**

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Notre Dame. 2002  
(2016, January

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8). Physicists offer theories to explain mysterious collision at Large Hadron Collider.

ScienceDaily.

Retrieved July 8, 2020 from [www.sciencedaily.com](http://www.sciencedaily.com)

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**theories to  
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But the  
capability of  
the immense LHC  
is the

culmination of  
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in particles

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meson meson or  
meson baryon  
interaction.

Color and quark  
mass dependence

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of resonance  
masses and  
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strong decays.

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... We review  
the basic idea,

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the tools that have been developed as well as the resulting theories in which successful reduction of couplings has been achieved so far. . . . we present a number of benchmark scenarios for

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each model and investigate their observability at existing and future . . .

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group researches  
different fields  
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effective field

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theory is a type of approximation, or effective theory, for an underlying physical theory, such as a quantum field theory or a statistical mechanics model.

An effective field theory

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includes the appropriate degrees of freedom to describe physical phenomena occurring at a chosen length scale or energy scale, while ignoring substructure and degrees of

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