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Education

- ✓ MS, Elementary Particle Physics and Field Theory,Urmia University - 2010
- ✓ PhD, Elementary Particle Physics and Field Theory,Razi University - 2016

Master Thesis

1. Study of decay modes of b-flavored mesons into charmed tetraquarks.

مأنده پرخاري [Sareh Dadfar, Mahboobe Sayahi, Salaheddin Zarrin, Mohsen Saadat, Soodeh Zarepour, Seyed Alireza Alavi]

نیمسال دوم سال تحصیلی 99-00

Journals Papers

2023

1. The possible contribution of B_0^s meson decay into $X(3872)$ and $F_1(1020)$

Maede Parkhari, Mahboobe Sayahi, Sareh Dadfar, Salaheddin Zarrin

PHYSICS LETTERS B Volume: (839) 137792-1 - 137792-5

2. Production cross section of heavy quarks in e-p interaction at the NLO approximation

Salaheddin Zarrin, Sareh Dadfar, Mahboobe Sayahi

NUCLEAR PHYSICS A Volume: (1039) 122741-1 - 122741-19

2022

3. Nonlinear corrections to the single differential cross section for neutral current e-p scattering in the NLO approximation

Salaheddin Zarrin, Sareh Dadfar

PHYSICAL REVIEW D Volume: (105) 094037-1 - 094037-19

4. The production cross section of the B_c and B_c mesons via the fragmentation of b quark at the next-to-leading-order accuracy

Sareh Dadfar, Salaheddin Zarrin

PHYSICS LETTERS B Volume: (835) 137538-1 - 137538-6

5. Heavy quark structure functions $F_{q_2}(x; Q^2)$ and $F_{q_L}(x; Q^2)$ at the NLO approximation

Salaheddin Zarrin, Sareh Dadfar

PHYSICAL REVIEW D Volume: (106) 094007-1 - 094007-12

2021

6. Analytic Derivation of the Longitudinal Proton Structure Function $FL(x, Q^2)$ and the Reduced Cross Section $\sigma(r)(x, Q^2)$ at the Leading Order and the Next-to-leading Order Approximations

Salaheddin Zarrin, Sareh Dadfar

INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS Volume: (60) 3822 - 3849

7. Cross section of D-mesons production via the c-quark fragmentation process at next-to-leading order accuracy in pp collisions at the 7TeV LHC

Sareh Dadfar, Salaheddin Zarrin

EUROPEAN PHYSICAL JOURNAL C Volume: (81) 949-1 - 949-10

2020

8. Analytic derivation of the photon structure function $F_2(\gamma)(x, Q^2)$ at the leading order and the next-to-leading order approximations based on the Laplace transform method

Sareh Dadfar, Salaheddin Zarrin

EUROPEAN PHYSICAL JOURNAL C Volume: (80) 319-1 - 319-27

2016

9. Laplace method for the evolution of the fragmentation function of B mesons

G.R. Boroun, Salaheddin Zarrin, Sareh Dadfar

NUCLEAR PHYSICS A Volume: (953) 21 - 31

10. The nonsinglet spin-dependent structure function evolution by Laplace and characteristics methods

G. R. Boroun, Salaheddin Zarrin, Sareh Dadfar

PHYSICS OF ATOMIC NUCLEI Volume: (79) 236 - 242

2015

11. An Approximation Approach to the Evolution of the Fragmentation Function

G. R. Boroun, T. Osati, Salaheddin Zarrin

INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS Volume: (54) 3831 - 3840

12. Decoupling of the DGLAP evolution equations by Laplace method

G. R. Boroun, Salaheddin Zarrin, F. Teimoury

European Physical Journal Plus Volume: (130) -

2013

13. An approximate approach to the nonlinear DGLAP evaluation equation

G. R. Boroun, Salaheddin Zarrin

European Physical Journal Plus Volume: (128) -

2011

14. Solution of Dirac equation with spin and pseudospin symmetry for an anharmonic oscillator

H. Goudarzi, M. Sohbati, Salaheddin Zarrin

JOURNAL OF MATHEMATICAL PHYSICS Volume: (52) 013506 -

Conferences Papers

2022

[1. The effect of NLO corrections to the production cross section of B+ meson](#)

Physics Conference of iran1401

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2020

[2. The contribution of photon distribution function inside the photon](#)

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