

Curriculum Vitae - Ramoona Shehzadi

Department of Physics
University of the Punjab
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Education

- Nov06 – Jan11 **PhD** in Physics
Major - High Energy Physics
Thesis title - Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons
University of Bonn; DESY, Hamburg, Germany
- Oct05 – Oct06 **Graduate student**
Major - High Energy Physics
Topic - Internal alignment of the straw-tube tracker in the ZEUS detector
University of Bonn, Germany
- Sep03 – Sep05 **M.Phil** in Physics (course work)
Punjab university, Lahore, Pakistan
- Jan01 – Jan03 **M.Sc.** in Physics
Major - Particle physics
Distinction - 2nd position in PU
Punjab university, Lahore, Pakistan

Teaching and Research Experience

- May23 – Present Tenured Associate Professor
Department of Physics
University of the Punjab, Lahore, Pakistan
- Oct12 – Apr23 Assistant Professor (TTS)
Department of Physics
University of the Punjab, Lahore, Pakistan
- Sep11 – Sep12 Assistant Professor (IPFP)
Department of Physics
University of the Punjab, Lahore, Pakistan
- Feb11 – Aug11 Postdoctoral Fellow
High Energy Physics
University of Bonn, Germany

Scholarships and Honors

November 2006	Scholarship Four year PhD scholarship from PI, Bonn Institute of Physics, University of Bonn, Germany
October 2005	Scholarship One year scholarship from BIGS Bonn International Graduate School, Germany
January 2003	Position 2 nd position in M.Sc at PU University of the Punjab, Lahore, Pakistan

Research Interests

High Energy Physics, Nuclear Astrophysics, Nuclear Physics

Research Projects

2022-2023	Project Title: Transverse Momentum Distributions of Charged Hadrons in p-p Interactions at LHC Energies Research grant amount: Rs. 200,000 from PU, Lahore
2021-2022	Project Title: Neutrino Cooling Rates due to Manganese Isotopes in Astrophysical Environments Research grant amount: Rs. 200,000 from PU, Lahore
2015-2016	Project Title: Neutrino energy loss rates due to Nickel isotopes in stellar matter Research grant amount: Rs. 150,000 from PU, Lahore
2014-2015	Project Title: Microscopic calculation of weak-interaction rates for modeling and simulation of supernovae Research grant amount: Rs. 150,000 from PU, Lahore

Courses taught

M.Phil	Quantum Electrodynamics, Standard Model of Particle Physics
M.Sc	Nuclear Physics, Particle Physics I, Particle Physics II
BS (Hons.)	Introductory Particle Physics, Relativistic Quantum Mechanics, Quantum Mechanics, Elementary Mechanics, Analytical geometry

Research Supervision

PhD Research Supervision

Miss Fakeha Farooq, Validity of Brink-Axel Hypothesis for Heavy Nuclei for Allowed and Unique First Forbidden β -Transitions (under supervision)

Miss Rabia Bashir, Charged particle production in $p - p$ collisions at LHC Energies (under supervision)

M.Phil Research Supervision

Miss Arooj Tahir, Transverse Momentum Distribution of Charged Hadrons in $p - p$ Collisions at $\sqrt{s} = 13\text{TeV}$ using Pythia (2023)

Miss Khadija Asif, Measurements of Anti-pion to pion ratios at LHC Energies (2022)

Muhammad Bilal Saeed, Gamow-Teller Strength and Half-life Calculations for Scandium Isotopes using pn-QRPA Model (2020)

Muhammad Sabeeh Ashraf, General Formalism for the Photo-detachment Cross Section of H- Ion near Spherical Solid Surface (2019)

Miss Sadaf Rani, Optimization of GT-strength interaction parameters for reliable prediction of half-lives of Calcium isotopes (2019)

Miss Rabiya Arshad, Beta decay half-lives and Gamow Teller Strength distributions for Vanadium isotopes using pn-QRPA Model (2019)

Miss Fiza Rehman, Beta decay studies of Scandium isotopes using the pn-QRPA model (2019)

Qamar Farooq, Beta decay half-life and stellar weak-interaction mediated rate calculations for Germanium isotopes (2018)

Noman Zakaria, Beta decay half-life and stellar weak-interaction mediated rate calculations for Zinc isotopes (2018)

Conference Presentations/Posters

Poster on Measurement of Heavy-Quark Jet Photoproduction at HERA
International Europhysics Conference on High Energy Physics (EPS)
21 – 27 July, Grenoble, Rhône-Alpes France, 2011

Poster on Beauty Production in Deep Inelastic Scattering at HERA using Decays into Electrons
International Europhysics Conference on High Energy Physics (EPS)
21 – 27 July, Grenoble, Rhône-Alpes France, 2011

Beauty Production in Deep Inelastic Scattering at HERA using Decays into Electrons
XIX International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS)
11 – 15 April, Newport News, Virginia, USA, 2011

Beauty and Charm Production in Deep Inelastic Scattering with the ZEUS Detector at HERA
 DPG Spring Meeting
 28 March – 01 April, Karlsruhe, Germany, 2011

Jets and Heavy Flavours at HERA
 International Workshop on Diffraction in High-Energy Physics
 10 – 15 September, Otranto, Italy, 2010

Beauty Production in DIS using Semileptonic Electron Decays at HERA
 74. Annual Meeting and DPG Spring Meeting
 15 – 19 March, Bonn, Germany, 2010

Beauty Production using Decays into Electrons
 ZEUS Collaboration Meeting
 05 – 09 October, Kiev, Ukraine, 2009

Beauty and Charm Production in DIS using Semileptonic Electron Decays
 DPG Spring Meeting
 9 – 13 March, Munich, Germany, 2009

Heavy Flavor Production at HERA as a Probe of Hard QCD
 XXXVIII International Symposium on Multiparticle Dynamics
 15 – 20 September, Hamburg, Germany, 2008

Local and Global Alignment of the Straw Tube Tracker in the ZEUS Detector
 Joint Dutch Belgian German Graduate School
 31 August – 11 September, SPA, Belgium, 2007

Internal Alignment of the Straw Tube Tracker in the ZEUS Detector
 DPG Spring Meeting
 5 – 9 March, Heidelberg, Germany, 2007

Schools Attended

CTEQ - MCnet Summer School
 8 – 16 August, Debrecen, Hungary, 2008

Joint Dutch Belgian German Graduate School
 31 August – 11 September, SPA, Belgium, 2007

18th Joint Dutch Belgian German School
 01 – 13 September, Bad Honnef, Germany, 2006

Computing Skills

Operating System	Linux/Unix, MAC OS, Windows
Programming	C/C++, HTML (basic), FORTRAN (basic)
Typography	Latex, Microsoft office

Scientific

Root, Origin

References

Prof. Dr. Ian C Brock

PhD thesis supervisor
Institute of Physics
University of Bonn
53115 Bonn, Germany

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Prof. Dr. Mujahid Kamran

Ex. Vice chancellor
University of the Punjab
54590 Lahore, Pakistan

Phone: +92-322-8881882
Email: kamran.m51@yahoo.com

List of Publications

Journal

- R. Shehzadi**, J.-Un Nabi, F. Farooq, Beta decay and electron capture rates on manganese isotopes in astrophysical environments, *New Astronomy*, **98** 101937 (2023)
- M. Ajaz, A. K. H. Ismail, M. U. Mian, R. Khan, **R. Shehzadi**, et. al., Charged Particles Transverse Momentum and Pseudorapidity Distribution in Hadronic Collisions at LHC Energies, *Entropy*, **25** 452 (2023)
- R. Shehzadi**, J.-Un Nabi, F. Farooq, Half-life prediction of some neutron-rich exotic nuclei prior to peak $A = 130$, *Physica Scripta* **97** 115301 (2022)
- F. Farooq, J.-Un Nabi, **R. Shehzadi**, β -decay Properties of Neutron-rich Yttrium Isotopes, *Physica Scripta* **96** 125312 (2021)
- H. Younis, F. Ahmad, **R. Shehzadi**, I. Asghar, et. al., Study of radioactivity in Bajaur Norite exposed in the Himalayan tectonic zone of Northern Pakistan, *Atmosphere* **12** 1385 (2021)
- R. Shehzadi**, J.-Un Nabi, F. Farooq, Lepton emission rates of $^{43-64}\text{V}$ isotopes under stellar conditions, *New Astronomy* **88** 101608 (2021)
- F. Farooq, J.-Un Nabi, **R. Shehzadi**, β -decay properties of some astrophysically important Sc isotopes, *Astrophysics and Space Science* **366** 86 (2021)
- M. Ajaz, A. K. H. Ismail, A. Ahmed, Z. Wazir, **R. Shehzadi** et. al., Centrality dependence of P_T distributions and nuclear modification factor of charged particles in Pb-Pb interactions at $\sqrt{S_N} = 2.76$ TeV, *Results in Physics*, **30** 104790 (2021)
- M. Waqas, H. M. Chen, G. X. Pen, A. K. H. Ismail, M. Ajaz, Z. Wazir, **R. Shehzadi** et. al., Study of Kinetic Freeze-out Parameters as a Function of Rapidity in p-p Collisions at CERN SPS Energies, *Entropy* **23** 1363 (2021)
- R. Shehzadi**, J.-Un Nabi, H. Ali, Energy rates due to weak decay rates of vanadium isotopes in stellar environment, *Astrophysics and Space Science* **365** 1, 3 (2020)
- R. Shehzadi**, J.-Un Nabi, F. Farooq, Lepton capture rates due to isotopes of vanadium in astrophysical environment, *astrophysics and Space Science* **365** 10, 173 (2020)
- J.-Un Nabi, **R. Shehzadi**, M. Majid, Neutrino cooling rates due to nickel isotopes for presupernova evolution of massive stars, *New Astronomy* **71** 12-24 (2019)
- J.-Un Nabi, **R. Shehzadi**, M. Fayaz, Gamow-Teller strength distributions and neutrino energy loss rates due to chromium isotopes in stellar matter, *Astrophysics and Space Science* **361** 95 (2016)
- R. Shehzadi**, H.M. Rafique, I. Abbas, M. A. Sohl, et. al., Assessment of drinking water quality of tehsil Alipur, Pakistan, *Desalination and Water Treatment*, **55** 8, 2253-2264 (2014)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass, *Journal of High Energy Physics*, *JHEP* **09**, 127 (2014)
- H.M. Rafique, I. Abbas, M. A. Sohl, **R. Shehzadi** et. al., Appraisal of drinking water quality of tehsil Jampur, Pakistan, *Desalination and Water Treatment*, **52** 25-27, 4641-4648 (2013)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of charm fragmentation fractions in photo-production at HERA, *Journal of High Energy Physics*, *JHEP* **09** 058 (2013)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of $D^{*\pm}$ production in deep inelastic scattering at HERA, *Journal of High Energy Physics*, *JHEP* **05** 097 (2013)

- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of D^\pm production in deep inelastic ep scattering with the ZEUS detector at HERA, Journal of High Energy Physics, JHEP **05** 023 (2013)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of inelastic J/ψ and ψ' photoproduction at HERA, Journal of High Energy Physics, JHEP **02** 071 (2013)
- H. Abramowicz et. al. (ZEUS Collaboration), Production of Z^0 bosons in elastic and quasi-elastic ep collisions at HERA, Physics Letters B, **718** 915921 (2013)
- H. Abramowicz et. al. (ZEUS Collaboration), Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA, The European Physical Journal C, **73** 2, 2311 (2013)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of high- Q^2 neutral current deep inelastic e^+p scattering cross sections with a longitudinally polarized positron beam at HERA, Physical Review D, **87** 5, 052014 (2013)
- H. Abramowicz et. al. (ZEUS Collaboration), Production of the excited charm mesons D_1 and D_2^* at HERA, Nuclear Physics B, bf 866 229254 (2013)
- H. Abramowicz et. al. (ZEUS Collaboration), Combined inclusive diffractive cross sections measured with forward proton spectrometers in deep inelastic ep scattering at HERA, The European Physical Journal C, **72** 2175 (2012)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of isolated photons accompanied by jets in deep inelastic ep scattering, Physics Letters B, **715** 8897 (2012)
- H. Abramowicz et. al. (ZEUS Collaboration), Inclusive-jet photoproduction at HERA and determination of α_s , Nuclear Physics B, **864** 137 (2012)
- H. Abramowicz et. al. (ZEUS Collaboration), Search for first-generation leptoquarks at HERA, Physical Review D, **86** 012005 (2012)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of the t dependence in exclusive photoproduction of $v(1S)$ mesons at HERA, Physics Letters B, **708** 14-20 (2012)
- H. Abramowicz et. al. (ZEUS Collaboration), Search for single-top production in ep collisions at HERA, Physics Letters B, **708** 27-36 (2012)
- H. Abramowicz et. al. (ZEUS Collaboration), Scaled momentum distributions for K_S^0 and $\Lambda/\bar{\Lambda}$ in DIS at HERA, Journal of High Energy Physics, JHEP **03** 020 (2012)
- H. Abramowicz et. al. (ZEUS Collaboration), Exclusive electroproduction of two pions at HERA, The European Physical Journal C, **72** 1869 (2012)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of heavy-quark jet photoproduction at HERA, The European Physical Journal C, **71** 1659 (2011)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons, The European Physical Journal C, **71** 1573 (2011)
- H. Abramowicz et. al. (ZEUS Collaboration), Study of tau-pair production at HERA, Journal of High Energy Physics, JHEP **02** 117 (2011)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of the energy dependence of the total photonproton cross section at HERA, Physics Letters B, **697** 184-193 (2011)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of D^+ and Λ_c^+ production in deep inelastic scattering at HERA, Journal of High Energy Physics, JHEP **11** 009 (2010)

- H. Abramowicz et. al. (ZEUS Collaboration), Inclusive-jet cross sections in NC DIS at HERA and a comparison of the k_T , anti- k_T and SIScone jet algorithms, Physics Letters B, **691** 127-137 (2010)
- H. Abramowicz et. al. (ZEUS Collaboration), Inclusive dijet cross sections in neutral current deep inelastic scattering at HERA, The European Physical Journal C, **70** 965982 (2010)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of beauty production in DIS and F_2^{bb} extraction at ZEUS, The European Physical Journal C, **69** 347360 (2010)
- H. Abramowicz et. al. (ZEUS Collaboration), Scaled momentum spectra in deep inelastic scattering at HERA, Journal of High Energy Physics, JHEP **06** 009 (2010)
- H. Abramowicz et. al. (ZEUS Collaboration), Measurement of high- Q^2 charged current deep inelastic scattering cross sections with a longitudinally polarized positron beam at HERA, The European Physical Journal C, **70** 945963 (2010)
- S. Chekanov et. al. (ZEUS Collaboration), A QCD analysis of ZEUS diffractive data, Nuclear Physics B, **831** 125 (2010)
- Aaron, F.D., Abramowicz, H. et al (H1 and ZEUS Collaborations), Events with an isolated lepton and missing transverse momentum and measurement of W production at HERA, Journal of High Energy Physics, JHEP **03** 035 (2010)
- Aaron, F.D., Abramowicz, H. et al (H1 and ZEUS Collaborations), Combined measurement and QCD analysis of the inclusive $e^\pm p$ scattering cross sections at HERA, Journal of High Energy Physics, JHEP **01** 109 (2010)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of dijet photoproduction for events with a leading neutron at HERA, Nuclear Physics B, **827** 133 (2010)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of isolated photon production in deep inelastic ep scattering, Physics Letters B, **687** 16-25 (2010)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of J/ψ photoproduction at large momentum transfer at HERA, Journal of High Energy Physics, JHEP **05** 085 (2010)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of high- Q^2 neutral current deep inelastic e-p scattering cross sections with a longitudinally polarized electron beam at HERA, The European Physical Journal C, **62** 625658 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Multi-leptons with high transverse momentum at HERA, Journal of High Energy Physics, JHEP **10** 013 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of J/ψ helicity distributions in inelastic photoproduction at HERA, Journal of High Energy Physics, JHEP **12** 007 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Multi-lepton production at high transverse momentum at HERA, Physics Letters B, **680** 13-23 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of charged current deep inelastic scattering cross sections with a longitudinally polarised electron beam at HERA, The European Physical Journal C, **61** 223235 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Scaled momentum distributions of charged particles in dijet photoproduction at HERA, Journal of High Energy Physics, JHEP **08** 077 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of the longitudinal proton structure function at HERA, Physics Letters B, **682** 822 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of D^\pm and D^0 production in deep inelastic scattering using a lifetime tag at HERA, The European Physical Journal C, **63** 171188 (2009)

- S. Chekanov et. al. (ZEUS Collaboration), Measurement of charm and beauty production in deep inelastic ep scattering from decays into muons at HERA, The European Physical Journal C, **65** 65-79 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Subjet distributions in deep inelastic scattering at HERA, The European Physical Journal C, **63** 527548 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Exclusive photoproduction of v mesons at HERA, Physics Letters B, **680** 4-12 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of beauty photoproduction using decays into muons in dijet events at HERA, Journal of High Energy Physics, JHEP **04** 133 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Deep inelastic scattering with leading protons or large rapidity gaps at HERA, Nuclear Physics B, **816** 1-61 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), A measurement of the Q^2 , W and t dependences of deeply virtual Compton scattering at HERA, Journal of High Energy Physics, JHEP **05** 108 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Leading proton production in deep inelastic scattering at HERA, Journal of High Energy Physics, JHEP **06** 074 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of the charm fragmentation function in D^* photoproduction at HERA, Journal of High Energy Physics, JHEP **04** 082 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of beauty production from dimuon events at HERA, Journal of High Energy Physics, JHEP **04** 082 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Search for events with an isolated lepton and missing transverse momentum and a measurement of W production at HERA, Physics Letters B, **672** 106115 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Production of excited charm and charm-strange mesons at HERA, The European Physical Journal C, **60** 25-45 (2009)
- S. Chekanov et. al. (ZEUS Collaboration), Inclusive $K_S^0 \bar{K}_S^0$ Resonance Production in ep Collisions at HERA, Physical Review Letters, **101** 112003 (2008)
- S. Chekanov et. al. (ZEUS Collaboration), Beauty photoproduction using decays into electrons at HERA, Physical Review D, **78** 072001 (2008)
- S. Chekanov et. al. (ZEUS Collaboration), Energy dependence of the charged multiplicity in deep inelastic scattering at HERA, Journal of High Energy Physics, JHEP **06** 061 (2008)
- S. Chekanov et. al. (ZEUS Collaboration), Deep inelastic inclusive and diffractive scattering at Q^2 values from 25 to 320 GeV^2 with the ZEUS forward plug calorimeter, Nuclear Physics B, **800** 1-76
- S. Chekanov et. al. (ZEUS Collaboration), Multijet cross sections in charged current ep scattering at HERA, Physical Review D, **78** 032004 (2008)
- S. Chekanov et. al. (ZEUS Collaboration), Diffractive photoproduction of dijets in ep collisions at HERA, The European Physical Journal C, **55** 177-191 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Exclusive ρ^0 production in deep inelastic scattering at HERA, PMC Physics A, **1** 6 (2008)
- S. Chekanov et. al. (ZEUS Collaboration), Dijet production in diffractive deep inelastic scattering at HERA, The European Physical Journal C, **52** 813-832 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Forward-jet production in deep inelastic ep scattering at HERA, The European Physical Journal C, **52** 515-530 (2007)

- S. Chekanov et. al. (ZEUS Collaboration), Three- and four-jet final states in photoproduction at HERA, Nuclear Physics B, **792** 1-47 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), High- E_T dijet photoproduction at HERA, Physical Review D, **76** 072011 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), BoseEinstein correlations of charged and neutral kaons in deep inelastic scattering at HERA, Physics Letters B, **652** 1, 1-12 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of (anti)deuteron and (anti)proton production in DIS at HERA, Nuclear Physics B, **786** 181-205 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Multijet production at low xB_j in deep inelastic scattering at HERA, Nuclear Physics B, **786** 152-180 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of D mesons production in deep inelastic scattering at HERA, Journal of High Energy Physics, JHEP **07** 074 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Diffractive photoproduction of $D^{*\pm}$ (2010) at HERA, The European Physical Journal C, **51** 301-315 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of $D^{*\pm}$ meson production in ep scattering at low Q^2 , Physics Letters B, **649** 111-121 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Leading neutron energy and p_T distributions in deep inelastic scattering and photoproduction at HERA, Nuclear Physics B, **776** 1-37 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Measurement of K_S^0, Λ and $\bar{\Lambda}$ production at HERA, The European Physical Journal C, **51** 1-23 (2007)
- S. Chekanov et. al. (ZEUS Collaboration), Jet-radius dependence of inclusive-jet cross sections in deep inelastic scattering at HERA, Physics Letters B, **649** 1, 12-24 (2007)

Conference Proceedings

Neutrino energy loss rates due to $^{66-71}\text{Ni}$ in stellar matter

F. Farooq, **R. Shehzadi**, J.-Un Nabi

3rd Pak-Turk International Conference ETSE2020

IOP Conf. Series: Materials Science and Engineering 899 (2020) 012005

<https://doi.org/10.1088/1757-899X/899/1/012005>

Measurement of Heavy-Quark Jet Photoproduction at HERA

R. Shehzadi (for the ZEUS Collaborations)

Proceedings for International Europhysics Conference on High Energy Physics (EPS), 2011

PoS(EPS-HEP2011)452

<https://doi.org/10.22323/1.134.0452>

Beauty production in deep inelastic scattering at HERA using decays into electrons

R. Shehzadi (for the ZEUS Collaborations)

Proceedings for International Europhysics Conference on High Energy Physics (EPS), 2011

PoS(EPS-HEP2011)451

<https://doi.org/10.22323/1.134.0451>

Beauty production in deep inelastic scattering at HERA using decays into electrons

R. Shehzadi (for the ZEUS Collaborations)

Proceedings for XIX International Workshop on Deep-Inelastic Scattering and Related Subjects, 2011

arXiv:1109.4718 [hep-ex]

Jets and heavy flavours at HERA

R. Shehzadi (on behalf of the H1 and ZEUS Collaborations)

Proceedings for International Workshop on Diffraction in High-Energy Physics, 2010

<https://doi.org/10.1063/1.3601368>

Heavy quark production at HERA as a probe of hard QCD

R. Shehzadi (on behalf of the H1 and ZEUS Collaborations)

Proceedings for XXXVIII International Symposium on Multiparticle Dynamics, 2008

<https://doi.org/10.3204/DESY-PROC-2009-01/105>

Others

Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons

R. Shehzadi, Ph.D. Thesis, Universität Bonn, Bonn, Germany

BONN-IR-11-01, 2011, available on

http://brock.physik.uni-bonn.de/zeus_pub.php

Beauty production in DIS using decays into electrons at HERA

R. Shehzadi (for the ZEUS Collaboration)

ZEUS-prel-10-010

Submitted to ICHEP 10, 35th International Conference on High Energy Physics, Paris

R. Shehzadi, Internal alignment of the straw-tube tracker in the ZEUS detector

Internal Report, Universität Bonn, Bonn, Germany

BONN-HE-2006-01, 2006, available on

http://brock.physik.uni-bonn.de/zeus_pub.php