

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

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

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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

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

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Jets and heavy flavours at HERA

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Heavy quark production at HERA as a probe of hard QCD

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