Dr. Pushpendra P Singh Biography

Pushpendra P. Singh is an experimental nuclear physicist with a passion for instrumentation. He earned a PhD in Physics from the [Aligarh Muslim University](https://www.amu.ac.in/index.jsp) for experimental investigations of low-energy incomplete fusion carried out at the [Inter-University Accelerator Centre](https://www.iuac.res.in/), New Delhi. His research focuses on low energy nuclear reactions, rare-decay studies, and deployment of cyber-physical systems in the domain of environment, agriculture and water. He received "Prof. C. V. K. Baba Best Thesis Award - 2008" from the [Indian Physics Association](https://www.tifr.res.in/~ipa1970/). He has been awarded [INFN-International-Fellowship](https://home.infn.it/en/) at the [Laboratori Nazionali di Legnaro](https://www.lnl.infn.it/index.php/en/%22%20%5Ct%20%22_blank), Italy in 2009 after a postdoctoral stay at the [Tata Institute of Fundamental Research](https://www.tifr.res.in/), Mumbai. During his stay at LNL, he worked on sub-barrier fusion and (multi)-nucleon transfer reactions using an electrostatic separator and PRISMA spectrometer in the research group of Prof. Dr. Alberto M. Stefanini. After a term at Legnaro in 2011, he joined the [Technical University Darmstadt](https://www.tu-darmstadt.de/index.en.jsp) / [GSI - Helmholtz Centre for Heavy-Ion Research GmbH](https://www.gsi.de/en/start/news.htm), Darmstadt, Germany as visiting scientist in nuclear spectroscopy group of Prof. Dr. Norbert Pietralla / Prof. Dr. Juergen Gerl. At GSI, he has been associated with the Lund-York-Cologne-Calorimeter (LYCCA) and the Advanced GAmma Tracking Array (AGATA). He joined Department of Physics at the Indian Institute of Technology Ropar in December 2013. He is a member of [NuStAR](http://www.fair-center.eu/for-users/experiments/nustar/nustar-collaboration.html%22%20%5Ct%20%22_blank) collaboration for the Facility for Anti-proton and Ion Research ([FAIR](http://www.fair-center.eu/)) at Darmstadt in Germany, and collaborates with the scientists from [JINR Dubna](http://www.jinr.ru/about-en/) (Russia), TU Darmstadt (Germany), ANL (USA), LASTI (University of Hyogo, Japan), Aksaray University (Turkey), IUAC (New Delhi), TIFR (Mumbai), and AMU (Aligarh). He has been/is the principal investigator of a number of scientific projects approved by the national/international funding agencies, and is the author of >70 high impact research articles. He is Project Director and Principal Investigator of iHub - AWaDH (Agriculture & Water Technology Development Hub) established by the [Department of Science & Technology](https://dst.gov.in/), Government of India, at IIT Ropar in the framework of [National Mission on Interdisciplinary Cyber Physical Systems](https://serbonline.in/ICPS/HomePage) (NM-ICPS), and founder director of the IIT Ropar - Technology and Innovation Foundation (a section - 8 company).