

1. Record Nr.	UNINA9910300552803321
Titolo	XXII DAE High Energy Physics Symposium : Proceedings, Delhi, India, December 12 -16, 2016 // edited by Md. Naimuddin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-73171-8
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (878 pages)
Collana	Springer Proceedings in Physics, , 0930-8989 ; ; 203
Disciplina	539.72
Soggetti	Elementary particles (Physics) Quantum field theory Particle acceleration Nuclear physics Heavy ions Elementary Particles, Quantum Field Theory Particle Acceleration and Detection, Beam Physics Nuclear Physics, Heavy Ions, Hadrons
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Explore the QCD Phase Diagram at Finite Baryon Density Region - Recent Results from RHIC Beam Energy Scan-I -- Silicon Sensors for HEP Experiments -- Physics and Detectors at Future Linear Colliders -- Hierarchy problem and Physics beyond the Standard Model -- Electroweak Measurements at LHC -- Electroweak Measurements at LHC -- Exotics in Flavor Factories -- Transport coefficients of Quark-Gluon-Plasma -- Results on quarkonium and heavy meson production in PbPb collisions by CMS experiment -- Recent status of the understanding of neutrino-nucleus cross section -- Review of Latest RHIC Results and Future Perspectives -- Status of INO-ICAL Detector -- Search for Sterile Neutrino Signal in the ^7Be Solar Neutrino Measurement with KamLAND -- A model for anisotropic strange stars -- Re-discovery of the SM Higgs boson in diphoton channel at 13 TeV at CMS in LHC -- Neutrino phenomenology and its cosmological insights with S4avor symmetry -- Twist-six corrections to eta-

photon and eta prime photon transition form factors in QCD -- Recent UE measurements at 13 TeV -- Pion mass modification in presence of external magnetic field -- Study of Multiple Partonic Interactions at the Large Hadron Collider -- Can stopped cosmic muons be used to estimate the magnetic field in the prototype ICAL detector?.

Sommario/riassunto

These proceedings gather invited and contributed talks presented at the XXII DAE-BRNS High Energy Physics (HEP) Symposium, which was held at the University of Delhi, India, on 12–16 December 2016. The contributions cover a variety of topics in particle physics, astroparticle physics, cosmology and related areas from both experimental and theoretical perspectives, namely (1) Neutrino Physics, (2) Standard Model Physics (including Electroweak, Flavour Physics), (3) Beyond Standard Model Physics, (4) Heavy Ion Physics & QCD (Quantum Chromodynamics), (5) Particle Astrophysics & Cosmology, (6) Future Experiments and Detector Development, (7) Formal Theory, and (8) Societal Applications: Medical Physics, Imaging, etc. The DAE-BRNS High Energy Physics Symposium, widely considered to be one of the leading symposiums in the field of Elementary Particle Physics, is held every other year in India and supported by the Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE), India. As many as 400 physicists and researchers attended the 22nd Symposium to discuss the latest advances in the field. A poster session was also organized to highlight the work and findings of young researchers. Bringing together the essential content, the book offers a valuable resource for both beginning and advanced researchers in the field.
