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The Strange Quark-Gluon Plasma Screening Effects in the Q2 Logarithmic Slope of F2; Charm Meson Interactions in Hadronic Matter; Contributed Papers; Dependence of the Forward Neutral Energy E_n on Transverse Energy E_T in Relativistic Heavy Ions Collisions; Effective Nucleon-Nucleon Interaction in the RPA; B and D Meson Coupling Constant and Form Factor Calculations from QCD Sum Rules; Quantum Contributions for the Temporal Evolution of Nonhomogeneous Configurations of the AO4 Model; QCD Sum Rules for Heavy A Semileptonic Decays; Nonperturbative Quantum Field Methods in Bose Einstein condensates Asymmetries in Heavy Meson Production in the Meson Cloud Model Scenario Crossing Symmetry Violation in Unitarity Corrected ChPT Pion-Pion Amplitude; Nuclear Matter Properties Determined by Relativistic Mean Field Model with ω - ω Coupling; The Relativistic Quasi-Particle Random Phase Approximation; A Comparison between the Relativistic BCS and Hartree-Bogoliubov Approximations in Nuclear Ground States; Chiral Phase Transition in a Covariant Nonlocal NJL Model; High Density Effects in eA Processes; Quasi-Deuteron Pairing and Isospin Asymmetry; Einstein Equations and Fermion Degrees of Freedom Hadronic Model Independence of the Hadron-QGP Phase Transition at Very Low Density Quark Degrees of Freedom in Compact Stars; Finite Temperature Nucleon Mass in QMC Model; The Fuzzy Bag Model Revisited; Neutron Star Properties in the Relativistic Mean Field Theory; Relativistic Description of Asymmetric Nuclear Matter in a ω - ω - σ - ρ Model; Simplifying Relativistic Density Limits for Nuclear Surface Properties in Walecka Model; Hyperons and Heavy Baryons Decays in the Light-Front Model; Neutron Stars in Nonlinear Coupling Models; Four-Wedge Product for Relativistic Treatment in Quantum Mechanics Multiplicity of Pions from a Heated Interacting Gas

Sommario/riassunto

This volume deals mainly with physics related to the RHIC. It contains one of the first reports on the results of RHIC experiments. Contents: First Physics Results from STAR (J Harris); The Origin of the Highest Energy Cosmic Rays (A V Olinto); Ultra-High Energy Cosmic Rays: Current Data and Propagation Scenarios (G M Tanco); Are High Energy Heavy Ion Collisions Similar to a Little Bang, or Just a Very Nice Firework? (E V Shuryak); Event-by-Event Analysis of Ultra-Relativistic Heavy-Ion Collisions in Smoothed Particle Hydrodynamics (T Osada et al.); Hadronic Form Factors from QCD Sum Rules (M
