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Introducing the interaction; Sketch of the nucleon-nucleon interaction;
 Theoretical many-body methods
 The Brueckner-Bethe-Goldstone expansion
 The variational method; The relativistic approach; The V low approach; Trying a link to QCD: the chiral symmetry approach; Neutron matter at very low density. An exercise in many-body theory; A single G-matrix problem; The ""exact"" EoS; Going to nuclear structure; The Thomas-Fermi approximation and implementations; The density functional method; Nuclear Physics and Neutron Star structure; The Neutron Star inner crust; The Neutron Star core and mass-radius relationship; Conclusions and outlook; Spin-isospin modes: Implications for astrophysics
 Introduction
 The compression modes and incompressibility of nuclear matter; Spin-isospin excitations; GT strength in fp-shell nuclei; Determination of GT- strength; Determination of GT+ strength and its astrophysical implications; Conclusions and outlook; NUCLEAR STRUCTURE AND NUCLEAR ASTROPHYSICS WITH RADIOACTIVE BEAMS; Nuclear-astrophysics experiments with relativistic radioactive beams; Introduction; Experiments with high-energy radioactive beams at GSI; Mass measurements; The dipole response of exotic nuclei; Future perspectives-NuSTAR at FAIR; The FAIR facility
 The radioactive beam facility
 Experiments with slowed-down and stopped beams; The low-energy branch; High-resolution in-flight spectroscopy (HISPEC); Decay spectroscopy (DESPEC); The advanced trapping system MATS; The laser-spectroscopy experiment LASPEC; Reactions with Relativistic Radioactive Beams (R3B); Experiments with stored and cooled beams; Isomeric beams, lifetimes, and masses (ILIMA); Reactions at internal targets in the NESR (EXL); Electron scattering with short-lived nuclei (ELISe); The Antiproton-Ion-Collider AIC; Conclusion
 Nuclear structure studies at RIKEN: New measurements with in-flight fast radioactive beams

Sommario/riassunto

Physicists have devoted much effort to reproducing the conditions of the primordial universe in laboratory conditions in their quest to work out a comprehensive theory of the appearance and evolution of nuclear matter. Whether it be trying to recreate the predicted primordial state of high-energy density matter in which quarks and gluons are effectively deconfined - the so-called Quark Gluon Plasma (QGP) - or exploring the structure and reaction properties of very unstable nuclei in experiments using radioactive beams, they have striven to understand the events which characterized the Big Bang

2. Record Nr.	UNISALENTO991002120859707536
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