1.

Record Nr.	UNINA990009610220403321
Autore	Benhabib, Seyla
Titolo	Dignity in adversity : human rights in troubled times / Seyla Benhabib
Pubbl/distr/stampa	Cambridge : Polity, 2011
ISBN	978-0-7456-5442-3
Descrizione fisica	XI, 298 p. ; 24 cm
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Collocazione	DFD-Faro 025
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2.

Record Nr.	UNINA9910739432803321
Autore	Kruse Michael Karl Gerhard
Titolo	Extensions to the No-Core Shell Model : Importance-Truncation, Regulators and Reactions / / by Michael Karl Gerhard Kruse
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2013
ISBN	3-319-01393-9
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (135 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	539.743
Soggetti	Particles (Nuclear physics)
	Quantum field theory
	Nuclear physics
	Heavy ions
	String models
	Elementary Particles, Quantum Field Theory
	Nuclear Physics, Heavy Ions, Hadrons
	Quantum Field Theories, String Theory
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Livello bibliografico	Monografia
Note generali	Doctoral Thesis accepted by the University of Arizona, USA.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction to Low-Energy Nuclear Physics -- The No Core Shell Model -- Importance Truncated No Core Shell Model -- UV and IR Properties of the NCSM -- Extending the NCSM with the RGM -- Conclusion.
Sommario/riassunto	Extensions to the No-Core Shell Model presents three extensions to the No-Core Shell Model (NCSM) that allow for calculations of heavier nuclei, specifically for the p-shell nuclei. The Importance-Truncated NCSM (IT-NCSM) formulated on arguments of multi-configurational perturbation theory selects a small set of basis states from the initially large basis space in which the Hamiltonian is diagonalized. Previous IT-NCSM calculations have proven reliable, however, there has been no thorough investigation of the inherent error in the truncated IT-NCSM calculations. This thesis provides a detailed study of IT-NCSM calculations and compares them to full NCSM calculations to judge the accuracy of IT-NCSM in heavier nuclei. When IT-NCSM calculations are performed, one often needs to extrapolate the ground-state energy from the finite basis (or model) spaces to the full NCSM model space. In this thesis a careful investigation of the extrapolation procedures was performed. On a related note, extrapolations in the NCSM are commonplace, but up to recently did not have the ultraviolet (UV) or infrared (IR) physics under control. This work additionally presents a method that maps the NCSM parameters into an effective-field theory inspired framework, in which the UV and IR physics are treated appropriately. The NCSM is well-suited to describe bound-state properties of nuclei, but is not well-adapted to describe loosely bound systems, such as the exotic nuclei near the neutron drip line. With the inclusion of the Resonating Group Method (RGM), the NCSM / RGM can provide a first-principles description of exotic nuclei and the first extension of the NCSM.