1. Record Nr. UNINA990001486200403321

Titolo	Recent trends in nonlinear analysis : Festschrift dedicated to Alfonso Vignoli on the occasionof his sixtieth birthday / J. Appell, editor
Pubbl/distr/stampa	New York : Birkhauser, c2000
ISBN	3-7643-6292-8
Descrizione fisica	vi, 264 p. ; 24 cm
Collana	Progress in nonlinear differential equations and their applications
Disciplina	515.7
Locazione	MA1
Collocazione	C-17-(40
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910300415603321

Autore	Prüser Henning
Titolo	Scanning Tunneling Spectroscopy of Magnetic Bulk Impurities : From a Single Kondo Atom Towards a Coupled System / / by Henning Prüser
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-06385-5
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (117 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	535.84
Soggetti	Magnetism Magnetic materials Spectrum analysis Microscopy Materials—Surfaces Thin films Surfaces (Physics) Interfaces (Physical sciences) Magnetism, Magnetic Materials Spectroscopy and Microscopy Surfaces and Interfaces, Thin Films

	Surface and Interface Science, Thin Films
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Experimental Setup and Background -- Investigation of Sub-surface Atoms by STM -- Kondo Physics of Single Sub-surface Atoms -- Signatures of Non-magnetic Atoms -- Two-Impurity Kondo Physics -- Prospects -- Appendix.
Sommario/riassunto	Magnetic impurities in a non-magnetic host metal have been actively explored in condensed matter physics in recent last decades. From both fundamental and applied viewpoints these systems are very interesting because they can exhibit strong electronic correlations that give rise to various fascinating phenomena beyond the single particle picture. Up to now our understanding of the underlying processes remains limited due to difficulties involved in measuring these systems on a microscopic scale. With their unique control, scanning tunneling microscopy (STM) and spectroscopy (STS) allow for the first time investigations of phenomena occurring on very small length and energy scales. Here, single magnetic iron and cobalt atoms embedded beneath a metal surface are investigated using these techniques. In particular, the transition from single impurity Kondo physics to two interacting impurities is studied in real space. This thesis contains a comprehensive description of the STM /STS technique, sub-surface impurities, as well as single- and two-impurity Kondo physics - and as such offers a valuable introduction to newcomers to the field.