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Titolo	The BCS-BEC Crossover and the Unitary Fermi Gas [[electronic resource] /] / edited by Wilhelm Zwerger
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Disciplina	539
Soggetti	BCS-BEC crossover Phase transformations (Statistical physics) Condensed materials Superconductivity Superconductors Low temperature physics Low temperatures Nuclear physics Heavy ions Quantum physics Quantum Gases and Condensates Strongly Correlated Systems, Superconductivity Low Temperature Physics Nuclear Physics, Heavy Ions, Hadrons Quantum Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- The BCS-BEC Crossover and the Unitary Fermi Gas -- The BEC-BCS Crossover: Some History and Some General Observations -- Crossovers in Unitary Fermi Systems -- Pairing Fluctuations Approach to the BCS-BEC Crossover -- The Unitary Gas and its Symmetry Properties -- Universal Relations for Termions With Large Scattering Length -- Unitary Fermi Gas, E Expansion, and Nonrelativistic Conformal Field Theories -- Dilute Fermi and Bose Gases -- The

Unitary Fermi Gas: From Monte Carlo to Density Functionals -- Scaling Flows and Dissipation in the Dilute Fermi Gas at Unitarity -- Thermodynamics of Fermi Gases -- Normal Phase of Polarised Strongly Interacting Fermi Gases -- Thermodynamics of Trapped Imbalanced Fermi Gases at Unitarity -- BCE-BEC Crossover and Unconventional Superfluid Order in one Dimension.

Sommario/riassunto

Triggered by recent experimental and theoretical progress in elucidating the tunable crossover, in ultracold Fermi gases, from BCS-type superconductors to BEC-type superfluids, this volume is a collaborative effort by most leading international experts to provide both a pedagogical and up-to-date introduction and comprehensive overview of this newly emerging field. It is now understood that the unitary regime that lies right in the middle of the crossover has remarkable universal properties, arising from scale invariance, and has connections with fields as diverse as nuclear physics and string theory. This volume will serve as reference for active researchers in the field and equally benefit the many non-specialists and graduate students looking for a selfcontained, approachable exposition of the subject matter.

2. Record Nr.	UNISA996466971703316
Titolo	BMC genomic data
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ISSN	2730-6844
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Soggetti	Genomics Databases, Genetic Génomique Periodical Periodicals.
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