

1. Record Nr.	UNISA996466798103316
Titolo	The BCS-BEC Crossover and the Unitary Fermi Gas [[electronic resource] /] / edited by Wilhelm Zwerger
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2012
ISBN	3-642-21978-0
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (XVI, 532 p. 154 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 836
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
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
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 Fermions 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 self-contained, approachable exposition of the subject matter.

2. Record Nr.	UNINA9910782519403321
Titolo	High coverage sites [[electronic resource]] : HIV prevention among injecting drug users in transitional and developing countries : case studies
Pubbl/distr/stampa	Geneva, : UNAIDS, 2006 Geneva, : UNAIDS, 2006 ©2006
ISBN	1-280-95330-6 9786610953301 92-9173-602-3
Descrizione fisica	1 online resource (80 p.)
Collana	UNAIDS best practice collection
Disciplina	362.196/97920091724
Soggetti	AIDS (Disease) - Developing countries - Prevention Intravenous drug abusers - Developing countries
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.
Nota di contenuto	CONTENTS; Tables; Abbreviations and Terms; Executive Summary; 1. Introduction and Methods; Definitions; 2. Case Studies: Eastern Europe; 2.1 Soligorsk, Belarus; 2.1.1 Summary; 2.1.2 Drug use and HIV situation; 2.1.3 History; 2.1.4 Features of services; 2.1.5 Coverage; 2.1.6 Maintaining and expanding coverage; 2.1.7 Further reading; 2.2 Pskov, Russian Federation; 2.2.1 Summary; 2.2.2 Drug use and HIV situation; 2.2.3 History; 2.2.4 Features of services; 2.2.5 Coverage; 2.2.6 Maintaining and expanding coverage; 2.2.7 Further reading; 2.3 Sumy, Ukraine; 2.3.1 Summary 2.3.2 Drug use and HIV situation 2.3.3 History; 2.3.4 Features of services; 2.3.5 Coverage; 2.3.6 Maintaining and expanding coverage; 2.3.7 Further reading; 3. Case Studies: Asia; 3.1 Dhaka, People's Republic of Bangladesh; 3.1.1 Summary; 3.1.2 Drug use and HIV situation; 3.1.3 History; 3.1.4 Features of services; 3.1.5 Coverage; 3.1.6 Maintaining and expanding coverage; 3.1.7 Further reading; 3.2 Rajshahi, People's Republic of Bangladesh; 3.2.1 Summary; 3.2.2 Drug use and HIV situation; 3.2.3 History; 3.2.4 Features of services; 3.2.5

Coverage; 3.2.6 Maintaining and expanding coverage
3.2.7 Further reading3.3 Hong Kong Special Administrative Region (Hong Kong SAR), People's Republic of China; 3.3.1 Summary; 3.3.2 Drug use and HIV situation; 3.3.3 History; 3.3.4 Features of services; 3.3.5 Coverage; 3.3.6 Maintaining and expanding coverage; 3.3.7 Further reading; 4. Case Studies: Latin America; 4.1 Salvador, Brazil; 4.1.1 Summary; 4.1.2 Drug use and HIV situation; 4.1.3 History; 4.1.4 Features of services; 4.1.5 Coverage; 4.1.6 Maintaining and expanding coverage; 4.1.7 Further reading; 5. Lessons learnt: High-coverage sites; 5.1 Common features of high-coverage programmes
5.2 Challenges for comprehensive HIV-related programmes5.3 Minimal coverage monitoring and estimation; 5.4 Recommendations for further research

Sommario/riassunto

UNAIDS commissioned this report to investigate programmes and sites in low-income and transitional countries which were regarded by international authorities as 'high coverage sites' -that is, where more than 50% of injecting drug users had been reached by one or more HIV-prevention interventions. The most significant finding is that high level coverage can be attained by interventions addressing HIV among injecting drug users in developing and transitional countries. The seven case studies each include a description of the development of the programme and features of the services provided, an
