1. Record Nr. UNISA996396692903316

Titolo	An ordinance of the Lords and Commons assembled in Parliament [[electronic resource]] : for the maintaining of the forces of the seven associated counties under the command of Edward Earl of Manchester
Pubbl/distr/stampa	[London], : Printed for Edward Husbands, 1644 May 15
Descrizione fisica	7 p
Soggetti	Taxation - England Great Britain History Civil War, 1642-1649 Sources Great Britain Politics and government 1642-1649 Sources
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Place of publication suggested by Wing (2nd ed.). "Ordered by the Commons assembled in Parliament, that this ordinance be forthwith printed and published -- Hen. Elsynge, Cler. Parl. D. Com." Reproduction of original in: Harvard University. Library.
Sommario/riassunto	eebo-0062

2. Record Nr. UNISA996418250903316

Autore	Pigneur Marine
Titolo	Non-equilibrium Dynamics of Tunnel-Coupled Superfluids [[electronic resource]] : Relaxation to a Phase-Locked Equilibrium State in a One-Dimensional Bosonic Josephson Junction / / by Marine Pigneur
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-52844-8
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (xx, 187 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	621.35
Soggetti	Quantum physics Condensed matter Low temperature physics Low temperatures Quantum Physics Condensed Matter Physics Low Temperature Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Theoretical Framework -- Experimental Setup and Measurement of the Observables -- Relaxation of the Josephson Oscillations in a 1D-BJJ -- Transition to a Relaxation-Free Regime -- Outlook: Consequence of a Relaxation on the Splitting of a 1D Bose Gas.
Sommario/riassunto	The relaxation of isolated quantum many-body systems is a major unsolved problem of modern physics, which is connected to many fundamental questions. However, realizations of quantum many-body systems which are both well isolated from their environment and accessible to experimental study are scarce. In recent years, the field has experienced rapid progress, partly attributed to ultra-cold atoms. This book presents the experimental study of a relaxation phenomenon occurring in a one-dimensional bosonic Josephson junction. The system consists of two 1D quasi Bose-Einstein condensates of 87Rb,

magnetically trapped on an atom chip. Using radio-frequency dressing, the author deforms a single harmonic trap, in which the atoms are initially condensed, into a double-well potential and realizes a splitting of the wave function. A large spatial separation and a tilt of the double-well enable the preparation of a broad variety of initial states by precisely adjusting the initial population and relative phase of the two wave packets, while preserving the phase coherence. By re-coupling the two wave packets, the author investigates tunneling regimes such as Josephson (plasma) oscillations and macroscopic quantum self-trapping. In both regimes, the tunneling dynamics exhibits a relaxation to a phase-locked equilibrium state contradicting theoretical predictions. The experimental results are supported with an empirical model that allows quantitative discussions according to various experimental parameters. These results illustrate how strongly the non-equilibrium dynamics differ from the equilibrium one, which is well described by thermodynamics and statistical physics. .