

Volume 51, issue 2, April 2021

Dynamics of Complex Systems: A Tribute to Mahir Hussein. Guest Editors: Carlos Bertulani, Valdir Guimaraes, and Arnaldo Gammal

20 articles in this issue

A Tribute to Mahir Saleh Hussein (1944–2019)

Carlos Bertulani, Arnaldo Gammal & Valdir Guimaraes

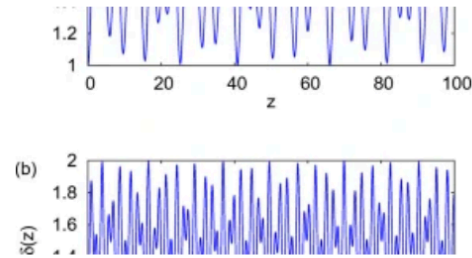
Preface | Published: 05 January 2021 | Pages: 149 - 150



Propagation of Solitons in Quasi-periodic Nonlinear Coupled Waveguides

Wesley Bueno Cardoso, Ardiley Torres Avelar & Dionisio Bazeia

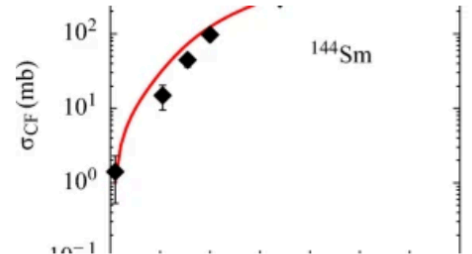
Condensed Matter | Published: 13 January 2021 | Pages: 151 - 156



Analysis of Fusion Cross Sections in the ^9Be Projectile Breakup on Different Target Nuclei

B. Mukeru & Lauro Tomio

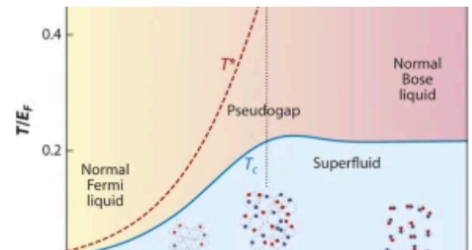
Nuclear Physics | Published: 24 October 2020 | Pages: 157 - 169



Cold Atoms Beyond Atomic Physics

Lucas Madeira & Vanderlei S. Bagnato

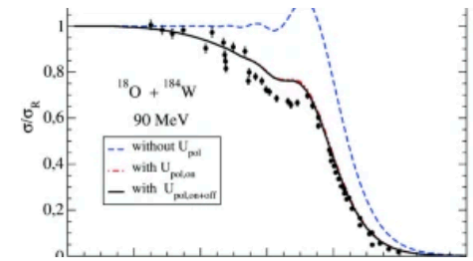
Atomic Physics | Published: 15 October 2020 | Pages: 170 - 180



Polarization Potentials in Nuclear Physics

L. F. Canto, B. V. Carlson & R. Donangelo

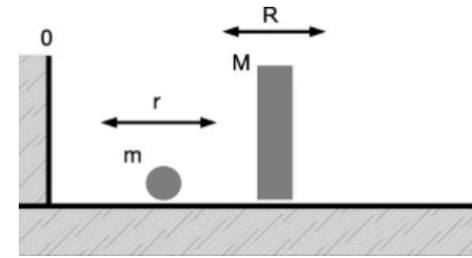
Nuclear Physics | Published: 04 February 2021 | Pages: 181 - 192



Quantum Trajectory Description of the Time-Independent (Inverse) Fermi Accelerator

M. S. Hussein & B. Poirier

Atomic Physics | Published: 25 November 2020 | Pages: 193 - 203



Noise in Mesoscopic Systems

A. L. R. Barbosa, I. R. A. C. Lucena & J. G. G. S. Ramos

Condensed Matter | Published: 08 January 2021 | Pages: 204 - 211

Neutron Capture Cross Sections of Radioactive Nuclei

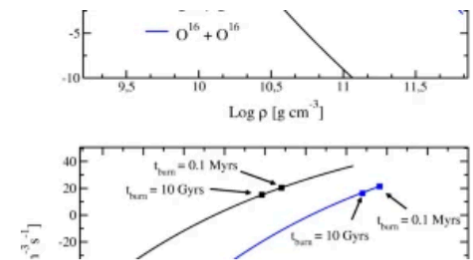
C. A. Bertulani & B. V. Carlson

Nuclear Physics | Published: 19 November 2020 | Pages: 212 - 222

Relevance of Dynamical Nuclear Processes in Quantum Complex Systems of Massive White Dwarfs

Manuel Malheiro, Edson Otoniel & Jaziel G. Coelho

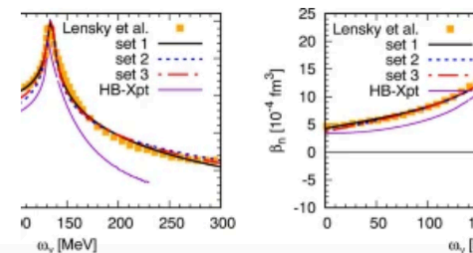
Nuclear Physics | Published: 03 January 2021 | Pages: 223 - 230



Few-Neutron Systems with the Long-Range Casimir-Polder Force

R. Higa & J. F. Babb

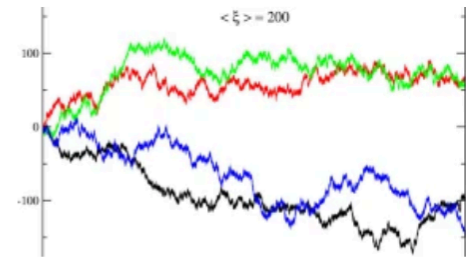
Atomic Physics | Published: 10 February 2021 | Pages: 231 - 237



Disordered Random Walks

Mauricio P. Pato

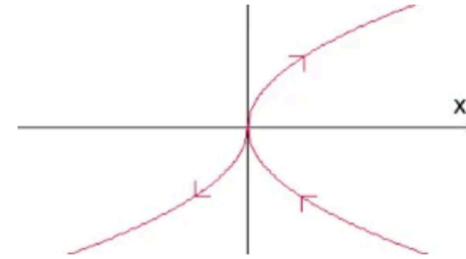
Atomic Physics | Published: 19 January 2021 | Pages: 238 - 243



Pure and Mixed States

J. C. A. Barata, M. Brum ... R. Correa da Silva

General and Applied Physics | Published: 09 November 2020 | Pages: 244 - 262



Mesoscopic Fluctuations: Nuclei, Quantum Dots, and Beyond

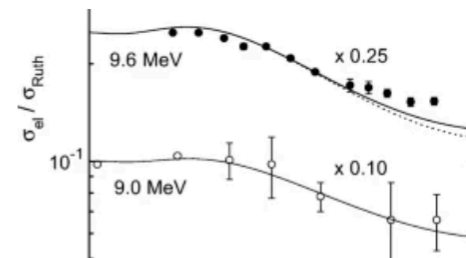
J. G. G. S. Ramos, A. L. R. Barbosa ... C. Lewenkopf

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Celebrating 20 Years of the São Paulo Potential

L. R. Gasques

Nuclear Physics | Published: 04 January 2021 | Pages: 269 - 276



Emergence of N-Body Tunable Interactions in Universal Few-Atom Systems

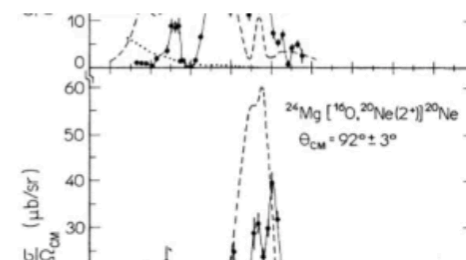
M. T. Yamashita, T. Frederico & Lauro Tomio

Atomic Physics | Published: 29 October 2020 | Pages: 277 - 286

Nuclear Reactions with Stable and Radioactive Ion Beams at LAFN-IFUSP

Alinka Lépine-Szily

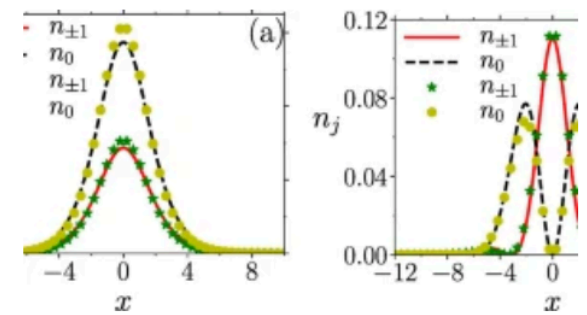
Nuclear Physics | Published: 05 January 2021 | Pages: 287 - 297



Solitons in a Spin-Orbit-Coupled Spin-1 Bose-Einstein Condensate

Sandeep Gautam & S. K. Adhikari

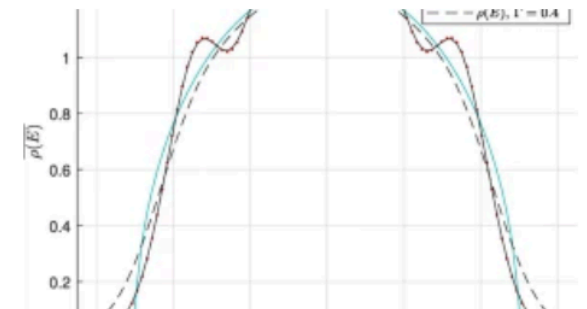
Atomic Physics | Published: 22 September 2020 | Pages: 298 - 307



Numerical Simulation of GUE Two-Point Correlation and Cluster Functions

Adam James Sargeant

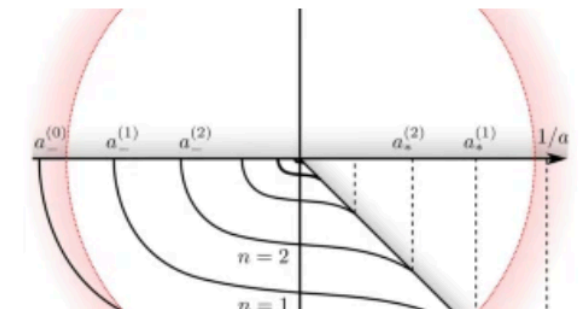
Nuclear Physics | Published: 06 October 2020 | Pages: 308 - 315



Fermions Meet Two Bosons—the Heteronuclear Efimov Effect Revisited

Binh Tran, Michael Rautenberg ... Matthias Weidemüller

Atomic Physics | [Open Access](#) | Published: 09 November 2020 | Pages: 316 - 322



The São Paulo Potential and the ^3He Breakup Reaction at 130 MeV on ^{93}Nb and ^{197}Au

E. V. Chimanski, L. A. Souza & B. V. Carlson

Nuclear Physics | Published: 18 January 2021 | Pages: 323 - 327

