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non associative structures actions of groups and semi groups non commutative dynamics non commutative geometry and applications in physics and beyond the book benefits a broad audience of researchers and advanced students this book features a selection of articles based on the xxxv białowieża workshop on geometric methods in physics 2016 the series of białowieża workshops attended by a community of experts at the crossroads of mathematics and physics is a major annual event in the field the works in this book based on presentations given at the workshop are previously unpublished at the cutting edge of current research typically grounded in geometry and analysis and with applications to classical and quantum physics in 2016 the special session integrability and geometry in particular attracted pioneers and leading specialists in the field traditionally the białowieża workshop is followed by a school on geometry and physics for advanced graduate students and early career researchers and the book also includes extended abstracts of the lecture series the ambition of this volume is twofold to provide a comprehensive overview of the field and to serve as an indispensable reference work for anyone who wants to work in it for example any philosopher who hopes to make a contribution to the topic of the classical quantum correspondence will have to begin by consulting klaas landsman s chapter the organization of this volume as well as the choice of topics is based on the conviction that the important problems in the philosophy of physics arise from studying the foundations of the fundamental theories of physics it follows that there is no sharp line to be drawn between philosophy of physics and physics itself some of the best work in the philosophy of physics is being done by physicists as witnessed by the fact that several of the contributors to the volume are theoretical physicists viz ellis emch harvey landsman rovelli t hooft the last of whom is a nobel laureate key features definitive discussions of the philosophical implications of modern physics masterly expositions of the fundamental theories of modern physics covers all three main pillars of modern physics relativity theory quantum theory and thermal physics covers the new sciences grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory contains special chapters that address crucial topics that arise in several different theories such as symmetry and determinism written by very distinguished theoretical physicists including a nobel laureate as well as by philosophers definitive discussions of the philosophical implications of modern physics masterly expositions of the fundamental theories of modern physics covers all three main pillars of modern physics relativity theory quantum theory and thermal physics covers the new sciences that have grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory contains special chapters that address crucial topics that arise in several different theories such as symmetry and determinism written by very distinguished theoretical physicists including a nobel laureate as well as by philosophers atomic and molecular physics introduction to advanced topics introduces advanced topics of atomic and molecular collision physics covering atomic structure calculations photoionization of atomic systems electron atom collisions ion atom collisions collisions involving exotic particles ultracold atoms and bose einstein condensation as well as atomic data and plasma diagnostics this volume is very useful to start research in theoretical and experimental atomic and molecular physics the book is also helpful to those working in interrelated research areas like laser physics astrophysics and plasma and fusion research where such a background of theoretical atomic collision physics is an integral part

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the białowieża workshops on geometric methods in physics which are hosted in the unique setting of the białowieża natural forest in poland are among the most important meetings in the field every year some 80 to 100 participants from both the mathematics and physics world join to discuss new developments and to exchange ideas the current volume was produced on the occasion of the 32nd meeting in 2013 it is now becoming a tradition that the workshop is followed by a school on geometry and physics which consists of advanced lectures for graduate students and young researchers selected speakers at the 2013 workshop were asked to contribute to this book and their work was supplemented by additional review articles the selection shows that despite its now long tradition the workshop remains at the cutting edge of research the 2013 workshop also celebrated the 75th birthday of daniel sternheimer and on this occasion the discussion mainly focused on his contributions to mathematical physics such as deformation quantization poisson geometry symplectic geometry and non commutative differential geometry

Geometric Methods in Physics

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Progress in Physics, vol. 3/2010

2018-02-10

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Adventures In Theoretical Physics: Selected Papers With Commentaries

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the book also includes extended abstracts of the lecture series

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2011-11-14

the ambition of this volume is twofold to provide a comprehensive overview of the field and to serve as an indispensable reference work for anyone who wants to work in it for example any philosopher who hopes to make a contribution to the topic of the classical quantum correspondence will have to begin by consulting klaas landsman s chapter the organization of this volume as well as the choice of topics is based on the conviction that the important problems in the philosophy of physics arise from studying the foundations of the fundamental theories of physics it follows that there is no sharp line to be drawn between philosophy of physics and physics itself some of the best work in the philosophy of physics is being done by physicists as witnessed by the fact that several of the contributors to the volume are theoretical physicists viz ellis emch harvey landsman rovelli t hooft the last of whom is a nobel laureate key features definitive discussions of the philosophical implications of modern physics masterly expositions of the fundamental theories of modern physics covers all three main pillars of modern physics relativity theory quantum theory and thermal physics covers the new sciences grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory contains special chapters that address crucial topics that arise in several different theories such as symmetry and determinism written by very distinguished theoretical physicists including a nobel laureate as well as by philosophers definitive discussions of the philosophical implications of modern physics masterly expositions of the fundamental theories of modern physics covers all three main pillars of modern physics relativity theory quantum theory and thermal physics covers the new sciences that have grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory contains special chapters that address crucial topics that arise in several different theories such as symmetry and determinism written by very distinguished theoretical physicists including a nobel laureate as well as by philosophers

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