

ASYMMETRIES IN TIME

PROBLEMS IN THE PHILOSOPHY OF SCIENCE

PAUL HORNICH

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Asymmetries In Time

Richard M. Gale



Asymmetries In Time:

Asymmetries in Time Paul Horwich, 1987-01-01 In this intriguing book Paul Horwich makes precise and explicit the interrelationships between time and a large number of philosophically important notions New Directions in the Russellian Theory of Time Emiliano Boccardi, L. Nathan Oaklander, Erwin Tegtmeier, 2024-12-26 The main debates in the philosophy of time have centred on whether A theory with events ordered by pastness presentness and futurity or B theory ordered by earlier than or later than are equally fundamental Emiliano Boccardi L Nathan Oaklander and Erwin Tegtmeier instead uphold the Russellian theory or R theory and consider not only the fundamental differences but also its superiority They argue McTaggart's misinterpretation of Russell has led to a false dichotomy between the A and B theories while exploring the connection between temporal relations temporal facts and time In defence of the R theory they argue how it offers a metaphysical explanation of the nature of time in addition to investigating whether ontological theories of time can be considered from a moral or existential point of view Using an ontological approach this volume clarifies what is mistaken about both theories can only be resolved by adopting a Russellian philosophy reaching beyond the A theory vs B theory debate Temporal Asymmetries in Philosophy and Psychology Christoph Hoerl, Teresa McCormack, Alison Fernandes, 2022 Our attitudes towards an event may vary depending on whether the event has happened or has yet to take place Philosophers and psychologists explore such psychological past future asymmetries to reveal what kinds of asymmetries we exhibit and under what conditions and how they may reflect particular beliefs about time or features of time itself *The Asymmetric Nature of Time* Vincent Grandjean, 2022-09-21 This open access monograph offers a detailed study and a systematic defense of a key intuition we typically have as human beings with respect to the nature of time the intuition that the future is open whereas the past is fixed For example whereas it seems unsettled whether there will be a fourth world war it is settled that there was a first world war The book contributes in particular three major and original insights First it provides a coherent non metaphorical and metaphysically illuminating elucidation of the intuition Second it determines which model of the temporal structure of the world is most appropriate to accommodate the intuition and settles on a specific version of the Growing Block Theory of time GBT Third it puts forward a naturalistic foundation for GBT by exploiting recent results of our best physics viz General Relativity Quantum Mechanics and Quantum Gravity Three main challenges are addressed the dismissal of temporal asymmetries as non fundamental phenomena only e.g. thermodynamic or causal phenomena the epistemic objection against GBT and the apparent tension between GBT and relativistic physics It is argued that the asymmetry between the open future and the fixed past must be grounded in the temporal structure of the world and that this is neither precluded by our epistemic device nor by the latest approaches to Quantum Gravity e.g. the Causal Set Theory Aiming at reconciling time as we find it in ordinary experience and time as physics describes it this innovative book will raise the interest of both academic researchers and graduate students working on the philosophy of time More generally it

presents contents of interest for all metaphysicians and non dogmatic philosophers of physics This is an open access book

Dawn-Dusk Asymmetries in Planetary Plasma Environments Stein Haaland, Andrei Runov, Colin Forsyth, 2017-10-04
DawnDusk Asymmetries in Planetary Plasma Environments Dawn dusk asymmetries are ubiquitous features of the plasma environment of many of the planets in our solar system They occur when a particular process or feature is more pronounced at one side of a planet than the other For example recent observations indicate that Earth s magnetopause is thicker at dawn than at dusk Likewise auroral breakups at Earth are more likely to occur in the pre midnight than post midnight sectors Increasing availability of remotely sensed and in situ measurements of planetary ionospheres magnetospheres and their interfaces to the solar wind have revealed significant and persistent dawn dusk asymmetries As yet there is no consensus regarding the source of many of these asymmetries nor the physical mechanisms by which they are produced and maintained Volume highlights include A comprehensive and updated overview of current knowledge about dawn dusk asymmetries in the plasma environments of planets in our solar system and the mechanisms behind them Valuable contributions from internationally recognized experts covering both observations simulations and theories discussing all important aspects of dawn dusk asymmetries Space weather effects are caused by processes in space mainly the magnetotail and can be highly localized on ground Knowing where the source i e where dawn dusk location is will allow for a better prediction of where the effects on ground will be most pronounced Covering both observational and theoretical aspects of dawn dusk asymmetries Dawn Dusk Asymmetries in Planetary Plasma Environments will be a valuable resource for academic researchers in space physics planetary science astrophysics physics geophysics and earth science *Philosophy and the Foundations of Dynamics* Lawrence Sklar, 2013 Examines the main theories of dynamics their original inception and their evolution over time into contemporary foundational theories **Asymmetries of Time Series Under Inverting Their Direction** Jonas Peters, 2008

Reality and Humean Supervenience Gerhard Preyer, Frank Siebelt, 2001-03-21 If asked what Humeanism could mean today there is no other philosopher to turn to whose work covers such a wide range of topics from a unified Humean perspective as that of David Lewis The core of Lewis s many contributions to philosophy including his work in philosophical ontology intensional logic and semantics probability and decision theory topics within philosophy of science as well as a distinguished philosophy of mind can be understood as the development of philosophical position that is centered around his conception of Humean supervenience If we accept the thesis that it is physical science and not philosophical reasoning that will eventually arrive at the basic constituents of all matter pertaining to our world then Humean supervenience is the assumption that all truths about our world will supervene on the class of physical truths in the following sense There are no truths in any compartment of our world that cannot be accounted for in terms of differences and similarities among those properties and external space time relations that are fundamental to our world according to physical science *Time and Space* Barry Dainton, 2016-04-15 The first edition 2001 of this title quickly established itself on courses on the philosophy of

time and space This fully revised and expanded new edition sees the addition of chapters on Zeno's paradoxes speculative contemporary developments in physics and dynamic time making the second edition once again unrivalled in its breadth of coverage Surveying both historical debates and the ideas of modern physics Barry Dainton evaluates the central arguments in a clear and unintimidating way and is careful to keep the conceptual issues throughout comprehensible to students with little scientific or mathematical training The book makes the philosophy of space and time accessible for anyone trying to come to grips with the complexities of this challenging subject With over 100 original line illustrations and a full glossary of terms the book has the requirements of students firmly in sight and will continue to serve as an essential textbook for philosophy of time and space courses

The Language of Time Richard M. Gale, 2025-09-01 First published in 1968 The Language of Time clarifies certain large scale features of ordinary or common sense concept of time by using linguistic analysis or ordinary language philosophy The author does so by studying the language of time in its everyday employment The book is divided into four parts Part one explores McTaggart's paradox and the language of time Part two is devoted to A Determinations and B Relations and discusses the most central issue separating the A and B theories the relation between tensed and tenseless discourse Part three examines the logical asymmetries between the Past and the Future and Part four deals with the concept of temporal becoming This book will be of interest to students and researchers of philosophy

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