Record Nr. UNINA9910254622203321 From Chemistry to Consciousness: The Legacy of Hans Primas // **Titolo** edited by Harald Atmanspacher, Ulrich Müller-Herold Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2016 **ISBN** 3-319-43573-6 Edizione [1st ed. 2016.] 1 online resource (XII, 154 p. 26 illus., 11 illus. in color.) Descrizione fisica 530.01 Disciplina Soggetti **Physics** Nuclear chemistry Quantum physics Chemistry, Physical and theoretical Cognitive psychology History and Philosophical Foundations of Physics **Nuclear Chemistry Quantum Physics** Theoretical and Computational Chemistry Cognitive Psychology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references at the end of each chapters. Nota di contenuto Introduction (H. Atmanspacher, U. Müller-Herold) -- Hans Primas and His Early Pathway (R. Ernst) -- Hans Primas - An Inspiring Teacher (G. Bodenhausen) -- Theoretical Chemistry and More: Personal Annotations to Hans Primas and His Work (U. Müller-Herold) --Superselection Rules (D. Giulini) -- Primas, Emergence, and Worlds (W. Seager) -- Contextual Emergence of Deterministic and Stochastic Descriptions (R. Bishop, P. beim Graben) -- Aspects of Algebraic Quantum Theory: A Tribute to Hans Primas (B. Hiley) -- Non-Commutative Structures from Quantum Physics to Consciousness Studies (H. Atmanspacher) -- List of Publications by Hans Primas. Sommario/riassunto This book reflects on the significant and highly original scientific contributions of Hans Primas. A professor of chemistry at ETH Zurich

from 1962 to 1995, Primas continued his research activities until his

death in 2014. Over these 50 years and more, he worked on the foundations of nuclear magnetic resonance spectroscopy, contributed to a number of significant issues in theoretical chemistry, helped to clarify central topics in quantum theory and the philosophy of physics, suggested innovative ways of addressing interlevel relations in the philosophy of science, and introduced cutting-edge approaches in the flourishing young field of scientific studies of consciousness. His work in these areas of research and its continuing impact is described by noted experts, colleagues, and collaborators of Primas. All authors contextualize their contributions to facilitate the mutual dialog between these fields.