# SYMMETRIES IN SCHENCE IX

Edited by Bruno Gruber and Michael Ramek

Alejandro Frank, Kurt B. Wolf

Symmetries in Science XV ,2013 Symmetries in Science VIII Bruno Gruber, 2012-12-06 Thf3 symposium Symmetries in Science VIII was held in August of 1994 at the Cloister Mehrerau in Bregenz Austria The symposium was supported by Southern Illinois University at Carbondale the Land Vorarlberg and the Landeshaupstaot Bregenz I wish to thank Dr John C Guyon President of Southern Illinois University at Carbondale Dr Hubert Regner Amt der Vorarlberger Landesregierung and Dipl Vw Siegfried Gasser Buergermeister der Landeshauptstadt Bregenz and Lantagsabgeordneter for their generous support of the symposium Finally I wish to thank Frater Albin of the Cloister Mehrerau for his support and cooperation in this endeavor which made for a successful meeting in a most pleasant environment Bruno Gruber v CONTENTS On Om x Gin Highest Weight Vectors Helmer Aslaksen Eng Chye Tan and Chen bo Zhu Invariant Theory of Matrices Helmer Aslaksen Eng Chye Tan and Chen bo Zhu 1 3 Symmetries of Elementary Particles Revisited A O Barut 21 Perturbative SU 1 1 Haluk Seker 25 A Dual Structure for the Quantal Rotation Group SU 2 L C Biedenharn and M A Lohe 37 Some Points in the Quantization of Relativistic Grassmann Dependent Interaction Systems A Del Sol Mesa and R P Martinez y Romero 49 for Uq sl 4 and q Conformal q Difference Intertwining Operators I nvariant Equations V K Dobrev 55 A Quantum Mechanical Evolution Equation for Mixed States from Symmetry and Kinematics H D Doebner and J D Hennig 85 vii Quantum Mechanical Motions over the Group Manifolds and Related Potentials I H Duru **Symmetries in Science VI** Samuel H. Gruber, 2013-10-27 The Symposium Symmetries in Science VI From the Rotation Group to Quantum Algebras was held at the Cloister Mehrerau Bregenz Austria during the period August 2 7 1992 The Symposium was held in honor of Professor Lawrence C Biedenharn on the occasion of his 70th birthday During the academic year 1966 67 I worked as research associate with Larry at Duke University and we have ever since maintained close contact It was thus natural for me to take the initiative and to organize this Symposium in honor of Larry as a great scientist and friend The response which the Symposium received showed the favorable reaction by the scientific community to the opportunity provided by the Symposium to honor our colleague teacher and friend Equally the scientific contributions contained in this volume illustrate the high esteem in which he is held I wish to thank all the scientists who participated in the Symposium and who contributed to this volume It is due to their commitment that the Symposium was successful Finally I need to thank those who provided financial and logistical assistance to the Symposium Dr John H Guyon President of Southern Illinois University at Carbondale Dr Russell R Dutcher Dean College of Science at SIUC Dr Maurice A Wright Chairman Department of Physics SIUC Dr

Victoria J Molfese Office of Research Developement and Administration SIUC as well as Dr Martin Purtscher Landeshauptmann Land Vorarlberg Dr Guntram Lins Landesrat Land Vorarlberg Symmetries in Science XIV ,2010 Symmetries in Science XV ,2012 Symmetries in Science V Bruno Gruber, L.C. Biedenharn, H.D. Döbner, 2012-12-06 Proceedings of a symposium held in Landesbildungszentrum Schloss Hofen Lochau Vorarlberg Austria July 30 August 3 1990 Symmetries in Science III Bruno Gruber, 1989-05-01 Symmetries in science: proceedings of the Symposium "Symmetries in Science" [Anonymus AC02851475],1980 Symmetries in Science XIV ,2010 Proceedings of the Symposium Symmetries in Science ,1980 Symmetries in Science XVI ,2014 Symmetries in Physics Alejandro Frank, Kurt B. Wolf, 2012-12-06 This volume gives a borad overview on symmetry methods ypplied to molecular and nuclear physics to particle physics decay processes and phase space dynamics The thoroughly edited contributions should be of interest not only to scientists but also to thos that want to see how symmetry considerations are put to work in twentieth century physics **Symmetries in Science** Bruno Gruber, 2012-12-06 Southern Illinois University at Carbondale undertook to honor Albert Einstein as scientist and as humanitarian in commemo ration of his lOOth birthday during an Albert Einstein Centennial Week February 23 March 2 1979 During the course of this week two Symposia were held entitled Symmetries in Science and Einstein Humanities Conscience in addition to cultural and social activities honoring Einstein This volume presents the Symposium Symmetries in Science It reflects the outstanding response that was given to our Albert Einstein Centennial Week by the international community of scientists The motivation to have a celebration honoring Albert Einstein at Southern Illinois University at Carbondale was supplied by Dr Paul A Schilpp the editor of the Library of Living Philo sophers Albert Einstein has contributed to this series with his autobiographical notes a kind of autobiography of his scientific life in a volume entitled Einstein Scientist Philosopher the most popular among all the outstanding volumes of this series Dr Paul A Schilpp's presence at Southern Illinois University at Carbondale provided a natural link for an Einstein Celebration as a kind of a continuation of the contribution he made to mankind through the Einstein volume of his Library of Living Philosophers

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