

H. Niewodniczański Institute of Nuclear Physics

Polish Academy of Sciences

Eljasza-Radzikowskiego 152, 31342 Kraków

Division of Theoretical Physics and Doctoral School INP PAS

warmly invite to attend the lectures by

Professor John R. Klauder

University of Florida, Gainesville

Tuesday, September 24th, 11.00,

Institute of Nuclear Physics PAS, Scientific Council Auditory, Blg. 4 ("tower"), ground floor

"A New Rule for Quantization that Resolves All Problems"

Canonical quantization works well, but there are some problems where it fails. A brief story of an addition to canonical quantization leads to new rules that work well. Two different examples offer proof of its potential.

Thursday, September 26th, 11.00,

Institute of Nuclear Physics PAS, Main Auditory, 1st floor

"The Real Quantum Gravity"

Canonical quantization fails for gravity but affine quantization works well. A brief introduction to affine quantization leads to an application to 3 nonrenormalizable models, which offer a genuine quantum gravity.



Professor John Riley Klauder received his Ph.D. in 1959 from Princeton University where he was a student of John A. Wheeler. In his PhD thesis he worked out, for the first time, the construction of standard coherent states, nowadays known as Klauder-Glauber-Sudarshan coherent states, and used them as a tool for justification of the Feynman path integral quantization procedure. A former head of the Theoretical Physics and Solid State Spectroscopy Departments of Bell Telephone Laboratories, he has been a visiting professor at Rutgers University, Syracuse University and the University of Bern. Since 1988 Professor Klauder has been a Professor of Physics and Mathematics at the University of Florida. He has authored 4 books and more than 200 papers published in top-ranked scientific journals. During several years he served as the President of the International Association of Mathematical Physics and Associate Secretary-General of the International Union of Pure and Applied Physics..

