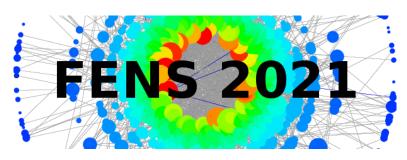
## 11th Polish Symposium on Physics in Economy and Social Sciences



Contribution ID: 40

Type: Invited talk (40 min)

## Financial return distributions across markets and time scales

Thursday, 1 July 2021 12:00 (40 minutes)

The dynamics of price changes involves very complex processes and constitutes one of the central issues in Econophysics. The functional forms of return distributions considered and reported in the literature include the Levy distribution and its truncated variant, power-laws and, in particular, its inverse-cubic case, the q-Gaussians and the stretched exponentials. These may vary among the financial instruments and even for the same instrument typically change with the time scale of aggregation. The present contribution is an attempt to provide a unified view on the related effects for different world markets, also from the historical perspective. Special focus is put on those quantitative characteristics of the return distibutions that are common to all the markets.

**Primary author:** DROŻDŻ, Stanisław (Institute of Nuclear Physics Polish Academy of Sciences and Cracow University of Technology, Poland)

**Co-authors:** Dr KWAPIEŃ, Jarosław (Institute of Nuclear Physics, Polish Academy of Sciences); Dr WĄTOREK, Marcin (Faculty of Computer Science and Telecommunications, Cracow University of Technology)

**Presenter:** DROŻDŻ, Stanisław (Institute of Nuclear Physics Polish Academy of Sciences and Cracow University of Technology, Poland)

**Session Classification:** S2