

SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **środę**

3 lutego 2021 r., o godz.10:00

odbędzie się seminarium **on-line (link podany jest na stronie IF PAN)**,
na którym

Prof. dr hab. Katarzyna Sznajd-Weron

Department of Theoretical Physics, Wrocław University of Science and Technology

wyłosi referat na temat:

“The Sznajd model - 20 years after”

About twenty years ago, in August 2000, we (Katarzyna Sznajd-Weron and Józef Sznajd) sent the paper entitled Opinion evolution in closed community to prof. Dietrich Stauffer, who was at that time the Editor in Chief of the International Journal of Modern Physics C (IJMPC). After a day or two we received an email from Dietrich Stauffer saying that he had read the paper with pleasure, repeated all simulations to check if everything was correct and would be happy to publish the paper in IJMPC. In the paper we proposed a one dimensional model of opinion formation which we named USDF from united we stand divided we fall [1]. Almost immediately after publication, a follow-up paper with the generalization of our model into two dimensions was written by Stauffer, Sousa and Moss de Oliveira [2]. It is this work that coined the term Sznajd model (SM) [3]. To our great surprise and joy, the model has become very popular in the field of sociophysics, various applications and modifications were proposed and to this day the model has been cited over 1000 times according to SCOPUS.

During this lecture I will briefly tell the history of the model, describe the model in its original formulation, as well as the generalized one, and tell in which directions the model was developed by other researchers. I will also put the model on the big picture of a highly interdisciplinary field of opinion dynamics. My talk will be largely based on two recent review papers: the most recent one in honor of prof. Stauffer, exclusively devoted to the Sznajd model [3], and more general review paper on modeling opinion dynamics [4].

[1] K. Sznajd-Weron, J. Sznajd, Opinion evolution in closed community, Internat. J. Modern Phys. C 11 (6), (2000) 1157–1165

[2] D. Stauffer, A.O. Sousa, S.M. De Oliveira, Generalization to square lattice of Sznajd sociophysics model, Internat. J. Modern Phys. C 11 (6), (2000) 1239–1245

[3] K. Sznajd-Weron, J. Sznajd, T. Weron, A review on the Sznajd model—20 years after, Physica A 565 (2021) 125537

[4] A. Jędrzejewski, K. Sznajd-Weron, Statistical physics of opinion formation: Is it a SPOOF? C. R. Phys. 20 (2019) 244–261

Serdecznie zapraszamy

**Roman Puźniak
Andrzej Szewczyk
Henryk Szymczak**