

First Workshop on Physics of Data

April 6-8, 2022 - Venice

Organized by the Physics and Astronomy Department of the University of Padova
and the Istituto Veneto di Scienze, Lettere e delle Arti

The modeling and the theoretical interpretation of complex natural phenomena from large amounts of data are at the core of the research in Physics. The Big Data revolution presents in this sense the challenges and opportunities for the physicists of today. In addition to the figure of Data Scientist, specialized purely in the analysis of large amounts of data, it is increasingly clear the need to also train figures able to develop the methods and modelling to better understand processes and causal relationships behind the data. This workshop will provide an overview of the possible open problems and research paths in several that physicists of Data can tackle thanks to their training. Topics in Fundamental Physics, Astrophysics, Physics of Complex Systems and Machine Learning will be presented through international researchers and young scholars, as well as alumni of the University of Padova.

Organizing committee:

*S. Suweis, M. De Domenico, M. Zanetti, J. Pazzini, A. Garfagnini,
M. Allegra, S. Montangero, M. Mapelli, M. Baiesi, A. Rinaldo*

Invited Speakers:

*A. Levina, E. Omodei, U. Tomasini, N. Dainese, J. Byers, J. Grilli,
G. Caldarelli, A. Braghetto, L. Baroni, J. Zierenber, I. Siloi, L. Lupi,
S. Cavinato, V. M. Schimmenti, F. Broekgaarde, C. Sgalletta,
G. Iorio, S. Vallecorsa, N. Wardle, G. Grosso*

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Registration open only for
Physics of Data students at



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