

MSI02. Low-rank matrices and tensors: algorithms and applications.

Organizers: Dmitry Savostyanov, Sergei Dolgov.

THURSDAY, 11:10-11:40: **AULA 10**. Submatrices with the best-bounded inverses: revisiting the hypothesis. Yuri Nesterenko.

THURSDAY, 11:40-12:10: **AULA 10**. Superfast iterative refinement of Low Rank Approximation of a Matrix. Victor Pan.

THURSDAY, 12:10-12:40: **AULA 10**. Adaptive Undersampling in Spectromicroscopy. Oliver Townsend.

THURSDAY, 12:40-13:10: **AULA 10**. A Nyström-like randomized algorithm for low-rank approximation of tensors. Alberto Bucci.

THURSDAY, 17:00-17:30: **AULA 10**. A simple yet effective tensor-based ODE model for Deep Learning. Davide Palitta.

THURSDAY, 17:30-18:00: **AULA 10**. A statistical POD approach for feedback boundary optimal control in fluid dynamics. Luca Saluzi.

THURSDAY, 18:00-18:30: **AULA 10**. Learning Feynman diagrams with tensor trains. Yuriel Núñez Fernández.

THURSDAY, 18:30-19:00: **AULA 10**. A weighted subspace exponential kernel for support tensor machines. Kirandeep Kour.

THURSDAY, 19:00-19:30: **AULA 10**. Empirical Tensor Train Approximation in Optimal Control. Mathias Oster.

FRIDAY, 11:10-11:40: **AULA 10**. Low-rank tensor frames for the high-accuracy solution of elliptic and parabolic PDEs. Vladimir Kazeev.

FRIDAY, 11:40-12:10: **AULA 10**. Low-rank nonnegative matrix and tensor approximations: alternating projections and how to make them faster. Stanislav Budzinskiy.

FRIDAY, 12:10-12:40: **AULA 10**. Tensor product algorithms for Bayesian inference of networks from epidemiological data. Dmitry Savostyanov.

FRIDAY, 12:40-13:10: **AULA 10**. Deep Importance Sampling Using Tensor Approximations. Sergey Dolgov.

Updated: 02 June 2023