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SwissMAP Research
Station in Les Diablerets

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Mean-field disordered systems and Hamilton-Jacobi equation

Monday 26 September 2022 14:15 (45 minutes)

A new approach to the identification of the limit free energy of
mean-field disordered systems, based on Hamilton-Jacobi equations, has
started to emerge. The goal of this talk will be to review the results
obtained so far with this method, as well as the challenges ahead. The
models considered will be either fully connected spin glasses, or models
from statistical inference, including the community detection problem on
a random graph with bounded average degree. Based on joint works with
Hong-Bin Chen, Tomás Dominguez, and Jiaming Xia.

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