## Hofer Norms on Braid Groups and

## Quantitative Heegaard-Floer Homology

Francesco Morabito
(Ecole Polytechnique Paris)

November 22, 2023 16:00-17:00h on campus in M.G.004 Analysis & Geometry Seminar, Antwerpen

Given a Lagrangian link with k components, it is possible to define an associated Hofer norm on the braid group with k strands. In this talk we are going to detail this definition, and explain how it is possible to prove non degeneracy if k=2 and certain area conditions on the Lagrangian link are met. The proof is based on the construction, using Quantitative Heegaard-Floer Homology, of a family of quasimorphisms which detect linking numbers of braids on the disc.