

Stability in functional inequalities

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Summer School

Direct and Inverse Problems with Applications, and Related Topics
[Ghent Analysis & PDE Center](#) (19-24 August, 2024)

August 21, 2024

1. *Introduction*

- The Sobolev inequality and the non-constructive stability result of Bianchi–Egnell using concentration-compactness methods
- Duality and stability in Hardy-Littlewood-Sobolev inequalities
- An example of entropy methods on the Euclidean space

[PDF file 1](#)

- **2. *Euclidean space.*** Stability results for Gagliardo-Nirenberg inequalities on the Euclidean space and extension (weights)

[PDF file 2](#)

- **3. *Sphere.*** Stability results on the sphere and on the Gaussian space seen as an infinite dimensional limit of spheres

[PDF file 3](#)

- **4. *Sobolev and LSI.*** Constructive stability results for the Sobolev and the logarithmic Sobolev inequalities

[PDF file 4](#)