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Tamped functions: A rearrangement in dimension 1

Monday, July 4, 2022 3:00 PM (30 minutes)

We define a new rearrangement, called rearrangement by tamping, for non-negative measurable functions defined on $\mathbb{R}_+$. This rearrangement has many properties in common with the well-known Schwarz non-increasing rearrangement such as the Pólya–Szegő inequality.
Contrary to the Schwarz rearrangement, the tamping also preserves the homogeneous Dirichlet boundary condition of a function. This presentation aims at presenting the construction of the rearrangement by tamping (with an algorithmic approach) and some recent developments around this idea.

Primary author: GODARD-CADILLAC, Ludovic (Nantes Université)

Presenter: GODARD-CADILLAC, Ludovic (Nantes Université)