Contents

Steepest descent flows and applications to spaces of probability measures
  Luigi Ambrosio 1

Hypocoercivity: the example of linear transport
  Laurent Desvillettes 33

A hybrid system of PDE’s arising in multi-structure interaction: coupling of
  wave equations in $n$ and $n-1$ space dimensions
  Herbert Koch and Enrique Zuazua 55

Some rigorous results for vortex patterns in Bose-Einstein condensates
  Amandine Aftalion 79

Qualitative properties of some Boltzmann like equations which do not fulfill a
detailed balance condition
  Miguel Escobedo and Stefan Mischler 95