
SILVIA SERFATY, New York University

The Ginzburg–Landau energy close to the second critical field

We are interested in the Ginzburg–Landau energy when the applied magnetic field approaches the “second critical field” from below. Then, bulk-superconductivity decreases and vortex lattices are expected. I will present joint results with Etienne Sandier/Amandine Aftalion, where we derive the uniform repartition of the energy and a limiting problem.