

Planar Sobolev extension domains

Pekka Koskela

University of Jyväskylä, Finland
`pkoskela@maths.jyu.fi`

Given a simply connected planar domain G , it may or may not be true that the Sobolev space $W^{k,p}(G)$ coincides with the restrictions of the functions in the corresponding space defined in the entire plane. I will describe the recent attempts towards obtaining geometric characterizations for the positive outcome.