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We use a new combinatorial technique to prove the optimal interior partial regularity result for Lp-vectorfields with integer fluxes minimizing the Lp-energy. More precisely, we prove that the minimal vectorfields are H\"older outside a set which is locally finite inside the domain. The results continue the program started in collaboration with Tristan Rivi\`ere, but this paper is self-contained.

Interior partial regularity for minimal Lp-

vectorfields with integer fluxes

(Submitted on 1 Apr 2012 (v1), last revised 10 Jul 2012 (this version, v2))

Comments: 36 pages, 6 figures. Some typos corrected, style made more fluent, improved end of proof p. 18-19
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