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Partial regularity of solutions to a linear elliptic system with quadratic Jacobian structure.

Summary: In this short note, we prove interior regularity of weak solutions to a class of linear elliptic system with quadratic Jacobian structures in higher dimensions, extending the result of P. Hajłasz et al. [Manuscr. Math. 127, No. 1, 121–135 (2008; Zbl 1157.35041)] in dimension two.

MSC:
35B65 Smoothness and regularity of solutions to PDEs
35J47 Second-order elliptic systems
35B30 Weak solutions to PDEs

Keywords:
compensated compactness; Hardy-BMO duality; decay estimate; interior regularity of weak solutions

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References:

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