Q Valued Functions Revisited Memoirs Of The American Mathematical Society

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(PDF) Q-Valued Functions Revisited - ResearchGate

Abstract: In this note we revisit Almgren's theory of Q-valued functions, that are functions taking values in the space of unordered Q-tuples of points in R^n. In particular: 1) we give shorter versions of Almgren's proofs of the existence of Dir-minimizing Q-valued functions, of their Hoelder regularity and of the dimension estimate of their singular set; 2) we propose an alternative intrinsic approach to these results, not relying on Almgren's biLipschitz embedding; 3) we improve upon the ...

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Q-valued functions revisited - American Mathematical Society

Camillo De Lellis (born June 11, 1976) is an Italian mathematician who is active in the fields of calculus of variations, hyperbolic systems of conservation laws, geometric measure theory and fluid dynamics. He is a permanent faculty member in the School of Mathematics at the Institute for Advanced Study.

Q-valued functions revisited - GBV

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Q-valued functions revisited | Camillo De Lellis

1.1. Decomposition and selection for Q-valued functions 7 14; 1.2. Extension of Lipschitz Q-valued functions 11 18; 1.3. Differentiability and Rademacher's Theorem 14 21; Chapter 2. Almgren's extrinsic theory 19 26; 2.1. The biLipschitz embedding and the retraction 19 26; 2.2. Properties of Q-valued Sobolev functions 23 30; 2.3.

Q-Valued Functions Revisited

Hence, we can formulate a Dirichlet problem for Q-valued functions: $f \in W^{1,2}(\Omega, A_Q)$ is said to be Dir-minimizing if $Dir(f,\Omega) \leq Dir(g,\Omega)$ for all $g \in W^{1,2}(\Omega, A_Q)$ with $f|\partial\Omega = g|\partial\Omega$. The main results proved in this paper. We are now ready to state the main theorems of Almgren reproved in this note: an existence theorem and two regularityresults.

[0803.0060] Q-valued functions revisited - arXiv

The elementary theory of Q-valued functions --2. Almgren's extrinsic theory --3. Regularity theory --4. Intrinsic theory --5. The improved estimate of the singular set in 2 dimensions. Series Title: Memoirs of the American Mathematical Society, no. 991. Responsibility: Camillo De Lellis, Emanuele Nunzio Spadaro. More information: Full text

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CiteSeerX — Q-VALUED FUNCTIONS REVISITED

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): In this note we revisit Almgren's theory of Q-valued functions, that are functions taking values in the space $A_Q(R\,n)$ of unordered Q-tuples of points in R n. In particular: • we give shorter versions of Almgren's proofs of the existence of Dir-minimizing Q-valued functions, of their Hölder regularity and of the ...

[0803.0060v4] Q-valued functions revisited

This is the last of a series of three papers in which we give a new, shorter proof of a slightly improved version of Almgren's partial regularity of area minimizing currents in Riemannian manifolds. Here we perform a blow-up analysis deducing the regularity of area minimizing currents from that of Dir-minimizing multiple valued functions.

Complex varieties and higher integrability of Dir ...

Publications of Emanuele Spadaro Roma, 16 January 2018 1. C. De Lellis, E. Spadaro, L. Spolaor. Regularity theory for 2-dimensional almost mini-

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Regularity of area minimizing currents II: center manifold ...

We provide new elementary proofs of the following two results: every complex variety is locally the graph of a Dir-minimizing function, first proved by Almgren (Almgren's big regularity paper, volume 1 of World Scientific Monograph Series in Mathematics, 2000); the gradients of Dir-minimizing functions, in principle square-summable, are p-integrable ...

Q-valued functions revisited (Book, 2010) [WorldCat.org]

TheelementarytheoryofQ-valued functions 7 1.1. Decomposition and selection for Q-valued functions 7 1.2. Extension ofLipschitz Q-valued functions 11 1.3. Differentiability and Rademacher's Theorem 14 Chapter 2. Almgren'sextrinsic theory 19 2.1. ThebiLipschitz embedding £ and theretraction p 19 2.2. Properties of Q-valued Sobolev functions 23 2.3.

Camillo De Lellis - Wikipedia

Abstract. This is the second paper of a series of three on the regularity of higher codimension area minimizing integral currents. Here we perform the second main step in the analysis of the singularities, namely, the construction of a center manifold, i.e., an approximate average of the sheets of an almost flat area minimizing current.Such a center manifold is accompanied by a Lipschitz ...

Q-valued functions revisited - Harvard University

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Regularity of area minimizing currents III: blow-up ...

-, A theorem on frequency function for multiple-valued Dirichlet minimizing functions, Preprint arXiv:math/0607576 (2006). William P. Ziemer, Weakly differentiable functions, Graduate Texts in Mathematics, vol. 120, Springer-Verlag, New York, 1989. Sobolev spaces and functions of bounded variation.