

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Enrico Pasqualetto			DUPLICATES	68
	title	Testing the Sobolev property with a single test plan	authors	<ul style="list-style-type: none">Enrico Pasqualetto		
	publication_date	2020-06-05 18:43:00+00:00	title	Testing the Sobolev property with a single test plan		
	source	SupportedSources.ARXIV	publication_date	2020-06-05 00:00:00		
	journal	None	source	SupportedSources.INTERNET_ARCHIVE		
	volume		journal			
	doi		volume			
	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/2006.03628v1http://arxiv.org/abs/2006.03628v1http://arxiv.org/pdf/2006.03628v1	doi			
	id	id-1996616988908696339	urls	<ul style="list-style-type: none">https://web.archive.org/web/20200915164809/https://arxiv.org/pdf/2006.03628v1.pdf		
	abstract	We prove that in a vast class of metric measure spaces (namely, those whose associated Sobolev space is separable) the following property holds: a single test plan can be used to recover the minimal weak upper gradient of any Sobolev function. This means that, in order to identify which are the exceptional curves in the weak upper gradient inequality, it suffices to consider the negligible sets of a suitable Borel measure on curves, rather than the ones of the p -modulus. Moreover, on RCD spaces we can improve our result, showing that the test plan can be also chosen to be concentrated on an equi-Lipschitz family of curves.	id	id-2527648929219527050		
			abstract	We prove that in a vast class of metric measure spaces (namely, those whose associated Sobolev space is separable) the following property holds: a single test plan can be used to recover the minimal weak upper gradient of any Sobolev function. This means that, in order to identify which are the exceptional curves in the weak upper gradient inequality, it suffices to consider the negligible sets of a suitable Borel measure on curves, rather than the ones of the p -modulus. Moreover, on RCD spaces we can improve our result, showing that the test plan can be also chosen to be concentrated on an equi-Lipschitz family of curves.		
	versions		versions			