

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Nikita EvseevAlexander Menovschikov			DUPLICATES	67
	title	Sobolev space of functions valued in a monotone Banach family	authors	<ul style="list-style-type: none">Nikita EvseevAlexander Menovschikov		
	publication_date	2020-03-24 04:54:01+00:00	title	Sobolev space of functions valued in a monotone Banach family		
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	doi	10.1016/j.jmaa.2020.124440	volume			
	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/2003.10657v1http://dx.doi.org/10.1016/j.jmaa.2020.124440http://arxiv.org/abs/2003.10657v1http://arxiv.org/pdf/2003.10657v1	doi			
	id	id-4938012688699326035	urls	<ul style="list-style-type: none">https://web.archive.org/web/20200326004915/https://arxiv.org/pdf/2003.10657v1.pdf		
	abstract	We apply the metrical approach to Sobolev spaces, which arise in various evolution PDEs. Functions from those spaces are defined on an interval and take values in a family of Banach spaces. In this case we adapt the definition of Newtonian spaces. For a monotone family, we show the existence of weak derivative, obtain an isomorphism to the standard Sobolev space, and provide some scalar characteristics.	id	id7170547945204792909		
	versions		abstract	We apply the metrical approach to Sobolev spaces, which arise in various evolution PDEs. Functions from those spaces are defined on an interval and take values in a family of Banach spaces. In this case we adapt the definition of Newtonian spaces. For a monotone family, we show the existence of weak derivative, obtain an isomorphism to the standard Sobolev space, and provide some scalar characteristics.		
			versions			