

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none"><li>Juha Kinnunen</li><li>Juha Lehtinen</li><li>Antti V. Vähäkangas</li><li>Xiao Zhong</li></ul>	authors	<ul style="list-style-type: none"><li>Juha Kinnunen</li><li>Juha Lehtinen</li><li>Antti V. Vähäkangas</li><li>Xiao Zhong</li></ul>	DUPLICATES	127
	title	Maximal function estimates and self-improvement results for Poincaré inequalities	title	Maximal function estimates and self-improvement results for Poincaré inequalities		
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	id	id-6952704462563496296	id	id-8272040570286414727		
	abstract	Our main result is an estimate for a sharp maximal function, which implies a Keith-Zhong type self-improvement property of Poincaré inequalities related to differentiable structures on metric measure spaces. As an application, we give structure independent representation for Sobolev norms and universality results for Sobolev spaces.	abstract	Our main result is an estimate for a sharp maximal function, which implies a Keith-Zhong type self-improvement property of Poincaré inequalities related to differentiable structures on metric measure spaces. As an application, we give structure independent representation for Sobolev norms and universality results for Sobolev spaces.		
	versions		versions			