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	authors	<ul style="list-style-type: none">Ambrosio, L.Pinamonti, A.Speight, G.	authors	<ul style="list-style-type: none">Luigi AmbrosioAndrea PinamontiGareth Speight	DUPLICATES	1106
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	id	id1375610259645317606	id	id-1671004276872003212		
	abstract		abstract	We investigate weighted Sobolev spaces on metric measure spaces (X,d,m) . Denoting by ρ the weight function, we compare the space $W^{1,p}(X,d,\rho\,m)$ (which always coincides with the closure $H^{1,p}(X,d,\rho\,m)$ of Lipschitz functions) with the weighted Sobolev spaces $W^{1,p}_\rho(X,d,m)$ and $H^{1,p}_\rho(X,d,m)$ defined as in the Euclidean theory of weighted Sobolev spaces. Under mild assumptions on the metric measure structure and on the weight we show that $W^{1,p}(X,d,\rho\,m)=H^{1,p}_\rho(X,d,\,m)$. We also adapt results by Muckenhoupt and recent work by Zhikov to the metric measure setting, considering appropriate conditions on ρ that ensure the equality $W^{1,p}_\rho(X,d,m)=H^{1,p}_\rho(X,d,m)$.		
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