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	authors	• Shibing Chen • Rupert Frank • Tobias Weth	**authors**	• Shibing Chen • Rupert L. Frank • Tobias Weth	DUPLICATES	1312
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	id	id-7967561717252834819	**id**	id368981238239953157		
	abstract	We show that the fractional Sobolev inequality for the embedding , s âˆˆ (0, N) can be sharpened by adding a remainder term proportional to the distance to the set of optimizers. As a corollary, we derive the existence of a remainder term in the weak L N N â’s -norm for functions supported in a domain of finite measure. Our results generalize earlier work for the non-fractional case where s is an even integer.	**abstract**	We show that the fractional Sobolev inequality for the embedding L^2N/N-s(^N), s âˆˆ (0,N) can be sharpened by adding a remainder term proportional to the distance to the set of optimizers. As a corollary, we derive the existence of a remainder term in the weak L^N/N-s-norm for functions supported in a domain of finite measure. Our results generalize earlier work for the non-fractional case where s is an even integer.		
	versions		**versions**			