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	id	id2470804623876802593	**id**	id-8613236974053132518		
	abstract	AbstractOur aim is to characterize the homogeneous fractional Sobolevâ€“SlobodeckiÄ spaces $$\mathcal {D}^{s,p}(\mathbb {R}^n)$$ D s , p (R n) and their embeddings, for $$s \in (0,1]$$ s âˆˆ (0 , 1] and $$p\ge 1$$ p â‰¥ 1 . They are defined as the completion of the set of smooth and compactly supported test functions with respect to the Gagliardoâ€“SlobodeckiÄ seminorms. For $$s\,p < n$$ s p < n or $$s = p = n = 1$$ s = p = n = 1 we show that $$\mathcal {D}^{s,p}(\mathbb {R}^n)$$ D s , p (R n) is isomorphic to a suitable function space, whereas for $$s\,p \ge n$$ s p â‰¥ n it is isomorphic to a space of equivalence classes of functions, differing by an additive constant. As one of our main tools, we present a Morreyâ€“Campanato inequality where the Gagliardoâ€“SlobodeckiÄ seminorm controls from above a suitable Campanato seminorm.	**abstract**	Our aim is to characterize the homogeneous fractional Sobolev-SlobodeckiÄ spaces ð’Ẏ^s,p (â„,^n) and their embeddings, for s âˆˆ (0,1] and pâ‰¥ 1. They are defined as the completion of the set of smooth and compactly supported test functions with respect to the Gagliardo-SlobodeckiÄ seminorms. For s p < n or s = p = n = 1 we show that ð’Ẏ^s,p(â„,^n) is isomorphic to a suitable function space, whereas for s p â‰¥ n it is isomorphic to a space of equivalence classes of functions, differing by an additive constant. As one of our main tools, we present a Morrey-Campanato inequality where the Gagliardo-SlobodeckiÄ seminorm controls from above a suitable Campanato seminorm.		
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