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In mathematics, a Sobolev space is a vector space of functions equipped with a norm that is a combination of L_p

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-norms of the function together with its derivatives up to a given order. The derivatives are understood in a suitable weak sense to make the space complete, i.e. a Banach space.

Sobolev space - Wikipedia

Two independent generalizations of Newtonian spaces are the Orlicz-Sobolev

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spaces introduced in 2004 by Aïssaoui and Tuominen, on one hand, and the Sobolev-Lorentz spaces introduced in 2011 by...

A generalization of Orlicz-Sobolev spaces on metric ...

Sobolev spaces, theory and applications
Piotr Haj lasz1 Introduction These are

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the notes that I prepared for the
participants of the Summer School in
Mathematics in Jyväskylä, August,
1998. I thank Pekka Koskela for his kind
invitation. This is the second summer
course that I delivered in Finland. Last
August I delivered

Sobolev spaces, theory and

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Let $W^{k,p}(\mathbb{R}^n)$ denote the Sobolev space consisting of all real-valued functions on \mathbb{R}^n whose first k weak derivatives are functions in L^p . Here k is a non-negative integer and $1 \leq p < \infty$. The first part of the Sobolev embedding theorem states that if $k > \ell$ and $1 \leq p < q < \infty$ are two real numbers such that

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Sobolev inequality - Wikipedia

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Sobolev spaces play an outstanding role in modern analysis, in particular, in the theory of partial differential equations and its applications in mathematical physics. They form an indispensable tool in approximation theory, spectral theory,

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differential geometry etc.

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Abstract We extend classical Troisi's inequality to the weighted p -Sobolev spaces on stretched cone, edge, and corner respectively. The results here can be used to investigate anisotropic ...

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**(PDF) Generalizations of Troisi's
inequality in weighted p ...**

In the literature, some generalizations of Sobolev spaces to noninteger orders, on a domain, are known (cf.): Gagliardo spaces, Besov spaces, and Nikolskii spaces. They have been introduced with the aid of approaches different from ours and their comparison with our spaces (in

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the case of) is an open problem.

And Lipschitz Domains
**Fractional Sobolev Spaces via
Riemann-Liouville Derivatives**

SOBOLEV ORTHOGONAL POLYNOMIALS
ON SG 3 We begin by a brief review of
the SOP on $[1;1]$, and we refer to [7,8,9]
for more details on this class of OPs and
certain of their generalizations. Given

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> 0, consider the inner product $(f, g)_S := \int_0^1 f(x)g(x) dx + \int_0^1 f'(x)g'(x) dx$ defined on the Sobolev space $W^{1,2}([0,1])$ of functions $f \in L^2([0,1])$ such that $f' \in L^2([0,1])$.

SOBOLEV ORTHOGONAL POLYNOMIALS ON THE SIERPINSKI GASKET

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