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# Absolute continuity of the best Sobolev constant of a bounded domain

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Let  $\lambda_q := \inf\{\|\nabla u\|_{L^p(\Omega)}^p / \|u\|_{L^q(\Omega)}^p : u \in W_0^{1,p}(\Omega)\setminus\{0\}\}$ , where  $\Omega$  is a bounded and smooth domain of  $\mathbb{R}^N$ ,  $1 < p < N$  and  $1 \leq q \leq p^*$ ,  $p^* := \frac{Np}{N-p}$ . We prove that the function  $q \mapsto \lambda_q$  is absolutely continuous in the closed interval  $[1, p^*]$ .

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