

Publication

A fractional Moser-Trudinger type inequality in one dimension and its critical points

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We show a sharp fractional Moser-Trudinger type inequality in dimension 1, i.e., for any interval $I \subset \mathbb{R}$ and $p \in (1, \infty)$ there exists $\alpha_p > 0$ such that $\sup_{u \in H^{1,p}(I)} \int_I |u|^p dx < \alpha_p$

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