

# ADAMS' INEQUALITY WITH THE EXACT GROWTH CONDITION

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Adams' inequality is the complete generalization of the Trudinger-Moser inequality to the case of Sobolev spaces involving higher order derivatives. In this talk we discuss the optimal growth rate of the exponential-type function in Adams' inequality when the problem is considered in the whole space  $\mathbb{R}^n$ . This is a joint work with Nader Masmoudi.