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Pohozaev-Trudinger-Moser type inequalities via Zygmund spaces.

New insights in limiting cases of Sobolev embeddings can be achieved by using Zygmund quasi-norms which, from one side throw light on classical inequalities, improving previous results such as optimal regularity for borderline PDE, attainability issues of sharp inequalities, on the other side within this framework new inequalities are established towards a better understanding of critical phenomena. (Received February 23, 2015)