

1084-52-41

Elisabeth M Werner* (elisabeth.werner@case.edu), Department of Mathematics, Case Western Reserve University, Cleveland, OH 44106, and **Shiri Artstein-Avidan, Boaz Klartag** and **Carsten Schuett**. *Functional affine-isoperimetry and an inverse logarithmic Sobolev inequality.*

We give a functional version of the affine isoperimetric inequality for log-concave functions which may be interpreted as an inverse form of a logarithmic Sobolev inequality for entropy. A linearization of this inequality gives an inverse inequality to the Poincare inequality for the Gaussian measure. (Received August 11, 2012)