

1147-35-669

Kazuhiro Ishige* (ishige@ms.u-tokyo.ac.jp), Graduate School of Mathematical Science, The University of Tokyo, 3-8-1 Komaba, Meguro-ku, Tokyo, Japan. *To logconcavity and beyond.*

In 1976 Brascamp and Lieb proved that the heat flow preserves logconcavity. In this paper, introducing a variation of concavity, we show that it preserves in fact a stronger property than logconcavity and we identify the strongest concavity preserved by the heat flow. This talk is based on a joint work with Paolo Salani (University of Florence, Italy) and Asuka Takatsu (Tokyo Metropolitan University, Japan). (Received January 28, 2019)