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**Niufa Fang, Sudan Xing** and **Deping Ye\*** (deping.ye@gmail.com), Department of Mathematics and Statistics, Memorial University of Newfoundland, St. John's, NL A1C5S7, Canada. *The  $L_p$  Asplund sum of log-concave functions.*

Log-concave functions have properties very similar to those for convex bodies, and many fundamental results and concepts for convex bodies have found their counterparts for log-concave functions.

In this talk, I will present some progress on the  $L_p$  Asplund sum of log-concave functions, an  $L_p$  addition analogue to the  $L_p$  addition of convex bodies. Related results and properties will be discussed as well. This is a joint work with N. Fang and S. Xing. (Received August 15, 2020)