1094-52-102 **Umut Caglar*** (umut.caglar@case.edu), Department of Mathematics, Cleveland, OH 44106, and **Elisabeth Werner** (elisabeth.werner@case.edu), Department of Mathematics, Cleveland, OH 44106. *Divergence for s-concave and log concave functions.*

In information theory, probability theory and statistics, an f-divergence is a function that measures the difference between two (probability) distributions. It is a generalization of commonly used divergences such as relative entropy (Kullback-Leibler divergence), Renyi divergences, total variation distance etc. In this talk we introduce f-divergence for s-concave and for log-concave functions. This is based on joined work with E. Werner. (Received August 14, 2013)