## A two-parameter generalization of Shannon-Khinchin Axioms

Tatsuaki Wada and Hiroki Suyari

Ibaraki University, Japan

## Abstract:

One of the authors (H. S) has proposed the \$q\$-generalization of Shannon-Khinchin axioms [IEEE Trans. Inform. Theory \textbf{50}, I783 (2004)]. We further generalized the Shannon-Khinchin axioms for the two-parameter Sharma-Taneja-Mittal entropy, which includes several known one-parameter entropies (e.g., Tsallis, Abe, Kaniadakis, etc.) as a special case.