1167-46-50 **Sudeshna Basu**, **Lakshmi Kanta Dey** and **SUSMITA SEAL*** (`susmitaseal1996@gmail.com`), RKMVERI, Belur Math, Howrah, 711202, India, and **Sumit Som**. *Characterization of M-compact sets via statistically convergent sequences.*

In this paper, we study stability of M-compactness for l^p sum of Banach spaces for $1 leq p < infty$. We also obtain a characterization of M-compact sets in terms of statistically maximizing sequence, a notion which is weaker than a maximizing sequence. Moreover, we introduce the notion of $mathcalI$-M-compactness of a bounded subset M of a normed linear space X with respect to an ideal $mathcalI$ and show that it is equivalent to M-compactness for non-trivial admissible ideals. (Received February 10, 2021)