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**Soumyadip Acharyya\*** (soumyadip.acharyya@gmail.com), **Sudip Acharyya, Sagarmoy Bag** and **Joshua Sack**. *Topologies on the rings of measurable functions.*

Let  $(X, \mathcal{A})$  stand for a nonempty set  $X$  equipped with a  $\sigma$ -algebra  $\mathcal{A}$  over  $X$ . The set of all real-valued  $\mathcal{A}$ -measurable functions on  $X$  forms a commutative lattice ordered ring with unity if the relevant operations are defined pointwise. My talk will focus on the so-called  $m$ -topology on this ring  $\mathcal{M}(X, \mathcal{A})$  and its measure-theoretic generalization. Important topological properties including first countability and connectedness will be discussed. (Received July 02, 2020)