On entropies in quasi-metric spaces

Olivier Olela Otafudu*, Paulus Haihambo

olivier.olelaotafudu@nwu.ac.za,
kashitoma@yahoo.com

Quasi-uniform entropy $h_{QU}(\psi)$ is defined for a uniformly continuous self-map ψ on a quasi-metric space (X, q). General statements are proved about this entropy, and it is shown that the quasi-uniform entropy $h_{QU}(\psi, q)$ is less or equals to the uniform entropy $h_U(\psi, q^s)$ for a uniformly continuous self-map ψ on a quasi-metric space (X, q). Finally we proved that the completion theorem for quasi-uniform entropy holds in the class of all join-compact quasi-metric spaces.