

1084-54-302

Jeffrey T. Denniston* (jeffdenn@netzero.net). *Towards a notion of discontinuous function between topological systems.* Preliminary report.

This talk describes a functorial embedding $\Omega_{\mathbf{P}}$ of the category **TopSys** into itself. This embedding allows for a definition of “arbitrary function” between topological systems: a **TopSys** morphism between the corresponding images under $\Omega_{\mathbf{P}}$. An arbitrary function can be considered “continuous” if it is the image under $\Omega_{\mathbf{P}}$ of a continuous function. Further, the arbitrary functions between “spaces” according to this definition are in one-to-one correspondence with functions between the underlying sets. (Received September 04, 2012)