1014-08-1730 **David W Jennings*** (d.w.jennings@verizon.net). *q-Demanding Topological Varieties Which Admit Non-Abelian Fundamental groups.*

Undemanding equation sets are those which can be modelled using only projections and constants. q-Undemanding equation sets are sets of equations which are easily satisfiable in q-th powers. q-Demanding equation sets are those which are not q-undemanding for any q. It was hoped that q-damanding equations would be characterized by having continuous models only on topological spaces with Abelian fundamental groups. We present some examples which show that q-demanding equation sets are insufficient to ensure that topologies on which they are continuous have an Abelian fundamental group. (Received September 29, 2005)