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Michel P. Serfati* (serfati@math.jussieu.fr). *On some properties of Post lattices of r -classifications.*

In a previous paper (Discrete Maths, 1999), one gave the definition and studied some basic properties of the Post lattice $\text{Pr}(E)$ of all the r -classifications of a set E . Such a lattice is an algebraic achievement of Post multivalued logical ideas. This talk is devoted to some specific new properties of these lattices, namely near successors (of a classification), Mobius function (for such a lattice), set-preserving re-arrangements (between two lattices), and finally multivalued binary relations on a set E . (Received June 30, 2005)