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Robert Raphael* (raphael@alcor.concordia.ca), Mathematics Department, Concordia University, Montreal, Quebec H3G 2T6, Canada. *A lattice naturally associated with a Tychonoff space.* Preliminary report.

Let X be a Tychonoff space. The ring $C(X)$ of continuous functions from X to the reals is well-known to be a lattice. We exhibit a bigger lattice of real-valued functions which is von-Neumann regular, and an epimorphic extension of $C(X)$. The work is related to previous work with Woods and Henriksen. (Received December 12, 2011)