1014-54-301   **Anthony W. Hager*** (`ahager@wesleyan.edu`), Department of Math. and C.S., Wesleyan University, Middletown, CT 06459, and **Richard N. Ball**. *Network character and tightness of the compact-open topology.*

We show that the cardinals tC(X),ncC(X),rtX stand in increasing order,and compare these cardinals with some of the many others involved in the association of C(X) to X. A corollary is that,for Cech-complete X,tC(X) is the Lindelof number of X. Here: X is a Tychonoff space,and C(X) carries the compact-open topology. tC(X) is the familiar tightness. ncC(X) is the network character,i.e.,the minimum size of a local network at 0. For k an infinite cardinal,a k-cozero-set is the union of no more than k cozero-sets,and k-defX is the minimum number of k-cozero-sets of the Cech-Stone compactification which intersect to X (generalizing Mrowka's R-defect). Finally,rtX is the minimum over k of all numbers k-defX. (Received September 07, 2005)

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