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SETS OF FILTER CONVERGENCE AND DIVERGENCE TO INFINITIES OF SEQUENCES OF CONTINUOUS FUNCTIONS FOR BOREL FILTERS

We give description of sets of filter convergence and divergence to infinities of sequences of continuous functions for Borel filters. In particular, we prove that a set of the reals of multiplicative class α is the set of filter convergence of a sequence of continuous functions on the real line iff the filter is of multiplicative class α but not lower. It brings some new information for example for statistical convergence.