Results and Independence Results in Set-Theoretical Topology

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The lecture contained a survey of results obtained by the author and I. Juhász concerning the following problems:
(A) How large discrete subspaces can be found in a $T_2$ space of large cardinality?
(B) What cardinalities can a $T_2$ space have?
(C) Under what conditions do the following properties imply each other:
(1) $R$ is hereditarily $\alpha$-separable,
(2) $R$ is hereditarily $\alpha$-Lindelöf?

Here is a list of publications where most of the results stated can be found:

References


\textbf{Mathematical Institute of the Hungarian Academy of Sciences}
\textbf{Budapest V, Hungary}