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## Hurewicz spaces in the Laver model

Joint work with Dušan Repovš (Ljubljana)

A topological space X has the Hurewicz property if for every sequence  $\langle \mathcal{U}_n : n \in \omega \rangle$  of open covers of X there exists a sequence  $\langle \mathcal{V}_n : n \in \omega \rangle$  such that  $\mathcal{V}_n \in [\mathcal{U}_n]^{<\omega}$ , and  $\{n \in \omega : x \notin \cup \mathcal{V}_n\}$  is finite for all  $x \in X$ . If we simply require that  $\{\cup \mathcal{V}_n : n \in \omega\}$  is an open cover of X then we get the definition of the Menger property. In our talk we shall discuss the preservation of the Hurewicz property by products. In particular, we shall present the main ideas of the proof of the following

**Theorem.** In the Laver model for the consistency of the Borel's conjecture, the product of any two Hurewicz spaces has the Menger property provided that it is a Lindelöf space. In particular, the product of any two Hurewicz metrizable spaces has the Menger property.

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