## Hurewicz sets and products in the Laver model

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A set of reals X is Hurewicz if for any sequence  $\mathcal{U}_0, \mathcal{U}_1, \ldots$  of open covers of X, there are finite sets  $\mathcal{F}_0 \subseteq \mathcal{U}_0, \mathcal{F}_1 \subseteq \mathcal{U}_1, \ldots$  such that each point  $x \in X$  belongs to all but finitely many sets  $\bigcup \mathcal{F}_n$ . This property is strictly weaker than  $\sigma$ -compactness and it is one of the classical properties in the selection principles theory. Under CH, there are Hurewicz sets whose product is not Hurewicz [1]. On the other hand, in the Laver model for the consistency of the Borel Conjecture any product of two Hurewicz sets is Hurewicz [2, 3]. The aim of the talk is to present that, in the Laver model, Hurewicz sets have a specific combinatorial structure which provides that they have strong properties when consider their products with sets having another covering properties as Scheepers, Menger, or Menger parametrized by filters.

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## References

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