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Aristotelis Panagiotopoulos* (panagio2@illinois.edu). *Menger compacta and projective Fraïssé limits.*

In every dimension n , there exists a canonical compact, metrizable space called the n -dimensional Menger space. For $n = 0$ it is the Cantor space and for $n = \infty$ it is the Hilbert cube. On the first part of the talk I will illustrate how basic notions of classical descriptive set theory naturally generalize into higher homotopical dimensions. In the second part of the talk I show how projective Fraïssé machinery can be employed in the study of the Menger compacta.

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