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**John F Oprea\*** (jfoprea@gmail.com). *On the  $\mathcal{D}$ -topological complexity  $\mathrm{TC}^{\mathcal{D}}$* . Preliminary report.

In this talk aspects of the recently defined  $\mathcal{D}$ -topological complexity  $\mathrm{TC}^{\mathcal{D}}$  will be considered. This includes the analogy with the 1-category  $\mathbf{cat}_1$ , a natural re-interpretation of the Farber-Tabachnikov-Yuzvinsky result on the immersion dimension of real projective spaces and an approach to the (higher)  $\mathrm{TC}^{\mathcal{D}}$  of  $H$ -spaces. (Received August 30, 2019)