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Kyle Hayden* (hayden@math.columbia.edu). *Corks, complex curves, and 4-manifolds.*

Corks are certain contractible 4-manifolds that play an important role in the study of exotic phenomena in dimension four. In this talk, I will describe a couple of applications of corks to the study of surfaces in 4-manifolds, including the construction of smoothly (indeed, holomorphically) embedded disks in the 4-ball that are isotopic through ambient homeomorphisms but not through ambient diffeomorphisms. (Received September 15, 2020)