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**Allison N. Miller\*** ([allison.miller@rice.edu](mailto:allison.miller@rice.edu)). *Satellite operators on knot concordance.*

I'll start with a brief discussion of why 4-manifold topology is interesting and unusual, and the ways that knot theory offers powerful tools to help us better understand it. Next, I'll sketch the basics of knot concordance, focusing on geometrically nice operators coming from the classical satellite construction. I'll go on to state some results and open questions in this area, and then close by discussing recent work (joint with P. Feller and J. Pinzón-Caicedo) on how various 4-dimensional measures of knot complexity change under the satellite operation. (Received August 01, 2020)