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Roi Docampo* (docampo@math.utah.edu), Department of Mathematics, University of Utah, 155 S 1400 E RM 233, Salt Lake City, UT 84112, and **Tommaso de Fernex**. *Geometry of arcs under birational maps*.

We study the effect of birational transformations on the topology of arc spaces of singular varieties. Our analysis focuses on the behavior of divergent wedges: arcs in the arc space whose limit points lie at infinity. This approach gives new insights for the understanding of Nash-type questions for singularities. (Received September 14, 2010)