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**Botong Wang\*** ([wang\\_botong@hotmail.com](mailto:wang_botong@hotmail.com)). *Cohomology jump loci of small ball complement of hypersurfaces.*

Let  $(X, 0) \subset (\mathbb{C}^n, 0)$  be a germ of an algebraic hypersurface at the origin. Let  $B$  be a small ball in  $\mathbb{C}^n$  centered at the origin. We are interested in the topology of the complement  $B \setminus X$ . We will relate the topological cohomology jump loci with some D-module theoretic cohomology jump loci. The main result is a structure theorem about the topological cohomology jump loci. This is a joint work with Nero Budur. (Received August 10, 2015)