

1118-32-205

Michael J Falk* (michael.falk@nau.edu), Flagstaff, AZ 86011-5717. *Milnor fibers of arrangements.*

Let Q be a reduced defining polynomial of an arrangement \mathcal{A} of linear hyperplanes in \mathbb{C}^ℓ . We prove that the first homology of the fiber $\{Q = 1\}$ of the Milnor fibration $Q: \mathbb{C}^\ell \setminus \{Q = 0\} \rightarrow \mathbb{C}^*$ is determined by the lattice of intersections of \mathcal{A} , resolving a long-standing conjecture. (Received January 31, 2016)