Turkish Journal of Mathematics

Scientific Journals Home Page

A Borsuk-Ulak Theorem for Heisenberg Group Actions

Necdet GÜNER
Department of Computer Engineering,
Başkent University,
Ankara-TURKEY

Abstract: Let $G=H_{2n+1}$ be a (2n+1)-dimensional Heisenberg Lie group acts on $M=C^m$-\{0\} and $M'=C^{m'}$-\{0\} exponentially. By using Cohomological Index we proved the following theorem. If $f:M\to M'$ is a G-equivariant map, then $m\le m'$.

Key Words: Borsuk-Ulam Type Theorem, Cohomological Index, Group Action.