At any time there is a location on earth where Theorem Let n> 2 be even. Every continuous the wind is not blowing.

Mathematical in Expretation:

Tor any continuous vector held on $S^2 \rightarrow \mathbb{R}^3$ $\langle \Upsilon(x), x \rangle = 0$ $\int_{\mathbb{R}^{3}} x \in S^{2} c \mathbb{R}^{3}$ there is a zero.

Let n>2 even. For each map 5 -5' there is a x & S such that $f(x) \in \{x, -x\}$

Proof: Assume that f(x) & dx,-x3 for all xe S?

Define

 $\overline{+}(x,+) = \frac{(1-t)x + + f(x)}{\|(1-t)x + t \cdot f(x)\|} \text{ is homotopy}$ $||f(x,+)| = \frac{(1-t)x + + f(x)}{\|f(x,+)\|} \text{ id}_{S^{k}} \stackrel{\text{def}}{=} f$



 $G(\lambda,+) = \frac{(\lambda-+)f(\lambda)++(-x)}{\|(\lambda-+)f(\lambda)++(-x)\|} \quad \text{is a homology} \quad -id \stackrel{c}{\simeq} f.$

-id su is the composition of u+1 reflections.

House Hy (-ids,): Hy (Sy) --> 1-1/ (Sy)

is multiplication with $(-1)^{h+1} = -1$.

Hance -id of id sh my

vector field on Sh vanishes at some point.

[every map 7:54 -> Ruth with (T(x), x)=0 Hxe54 Vanisher at some point]

Proof. Assume T(x) +0 for all xe S" Define $f(x) = \frac{\gamma(x)}{\|\gamma(x)\|} \in S^n$.

By the Lenna there is $x_0 \in S^M$ such that f(x°) t {x°'-x°}

This contradicts

 $0 = \langle \tau(x_o), x_o \rangle = \| \tau(x_o) \| \cdot \langle f(x_o), x_o \rangle$