$$\mathbb{R}^n\setminus\{0\}$$
  $\mathbb{S}^n\supset(\pi|)^{-1}(U)=S_+\sqcup S_ \mathbb{S}^n\supset U$  Homeomorfismo antipodal  $S_+\sqcup S_ \mathbb{S}^n\supset U$ 

 $\forall x \in \mathbb{P}^n, \ \exists H \not\ni x \implies x \in U$ 

$$\pi: \mathbb{S}^n \to \mathbb{P}^n$$
 homeomorfismo local