· L'near ce se

x = Ax

stores of equilibria or the ones which setisfy Axe = 0They are all the stores which are in the ternal of A and they are a subspace of the store-space.

Xe = 0 is always on equilibrism but it's not necessarily unique. Isolated paint: I a neighborhood where there are no equilibrian In order to have altreativeness the equilibrium must be isolated. Attreativeness implies glabal properties in linear systems. the stability of a generic equilibrium point coincides with the stability of the arigin (if the arigin is As it is don't and con be Es only if it is As)

· Stobility of a notion (evolution)

- p condition for AS: Re(Zi) < 0

 $M = \left\{ (t, x_0(t)); t \geq 0, \varphi(t, x_0, V_0[0,t)) = x_0(t) \right\}$

M is stable wit perturbation of x_0 : f $\forall \xi, \exists S_{\xi}: \|x_0 - x_{\xi}\| < S_{\xi} = \rho \|x_{\xi}(t) - x_{\delta}(t)\| < \xi \quad \forall t \geq 0$ Luperturbed notion