

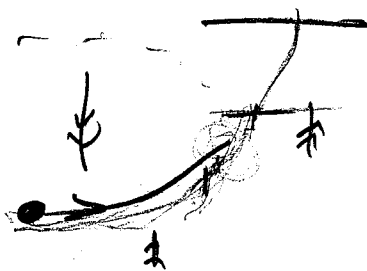
$$u^0 = \mu + u^2$$

$$f = z(f+1)$$

$$t \in (-\infty, 0)$$

$$(u, \mu)(-\infty) = f(-1)$$

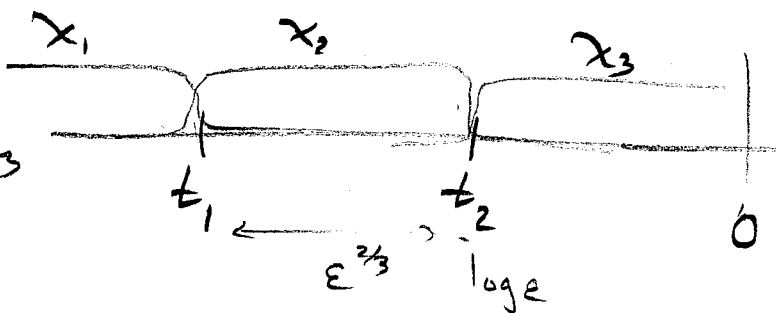
$$u|_{t=0} = \delta$$



$$(u, \mu) = \sum_{j=1,2,3} x_j (u_j, \mu_j)$$

x_i р.о.и.)

$x_{1/2,3}$



$t_{1/2}$ chosen depends on ϵ

1) $(u_1, \mu_1) \rightarrow$ slow infl / unstable infl of

construct on $u \in (-1, -\underbrace{u_1}_s)$ depend on $\varepsilon?$

$$2) \frac{a^2}{b^2} = 1 + \frac{c^2}{b^2}$$

$$u = e' u.$$

$$\tilde{f}^2 = 1 + \dots$$

ex! $\vec{u}, \vec{v} : \vec{u} \rightarrow -1, \vec{v} \rightarrow -\infty$

ex. $(u_1, \mu_1)(\varepsilon t - \sigma_1, \varepsilon)$

exact sol

$$(u_1, \mu_1)^{\sigma_1}(0) = (-\sigma_1, \sigma_1^2)$$

$$(u_2, \mu_2) = (u_R, \mu_R)(\varepsilon^{2/3}t + \sigma_2)$$

$$u_R, \mu_R \text{ for } \bar{u}, \bar{\mu} - \varepsilon q'$$

$$(u_3, \mu_3) \text{ for } \begin{cases} \ddot{u} = \frac{2}{3} u^2 \\ \ddot{\mu} = 0 \end{cases}, u(0) = \delta$$

$$(u_3, \mu_3)(t)$$