



Bifuncations determined := f(x,r,h) by crutical points of i.e. stus of f(x,r,h)=0 surface Bif. happen when $f_x(x,r,h) = 0$: singular places on the senface Classification of all possible siegent rie les ju low de meneron (3,5,4) _ R. Thom Big Theorem! Unfortunately led to abuse. Complicated systems do not depend on 2/3 por our eters only Hupe controver Google H. Sussmann Rutgers Noth.



Douxe. Flow on a circle.





Cretical flow down T_> 00 00 FJE T-Fe _f. NETRE? T= S do do <u>e</u> 216