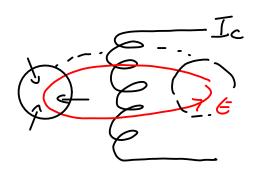
## <u>Current-driven</u> instabilities

## Contents

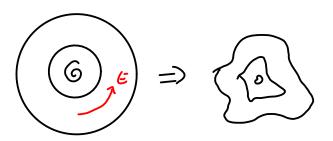
- Toroidal pinch, kink modes

- Stabilisation by walls, toroidal B field

- Tokamak modes: Sawteeth, Kinks, Tearing modes



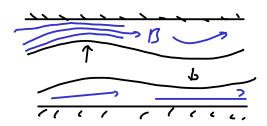
Perhapsatron. J. Tuck 1952

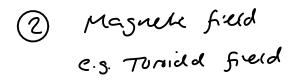


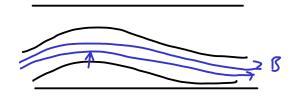
Carruthers, Davenport, 1957

## Stabilisation









## Stabilled pinches e.s. ZETA

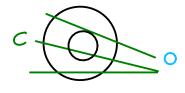
Observed quiet (quiescent) States

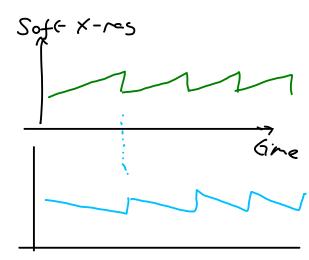
—, Ced to work on Reversed Field

pinches

Tokanahs

1) Sawtook





- 2 Extend kinks, Resistive Well Mode - Dongerous, con lead to disription
- 3) Tearing mode, NTM

