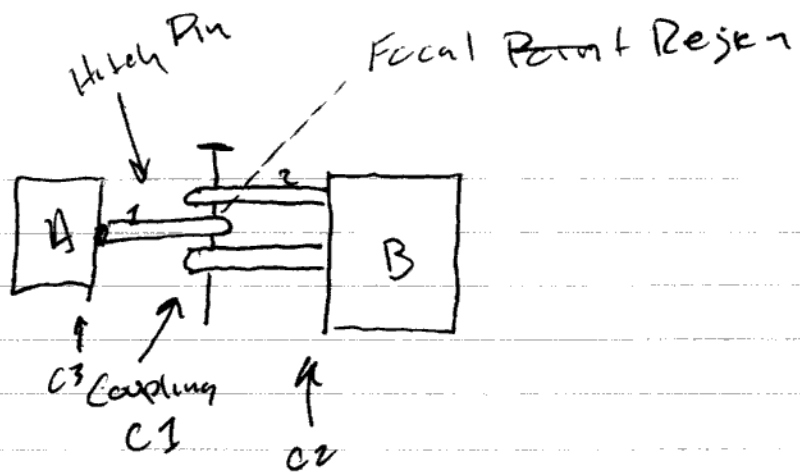


Ring, C must have equal translation in  $XYZ$

Ring may rotationally translate in  $XY$  plane

Essence of Locking...

material in Ring and C cant occupy  
same space at same time



Entities

A

B

Pin

1

2

Couplings

C1

C2

C3

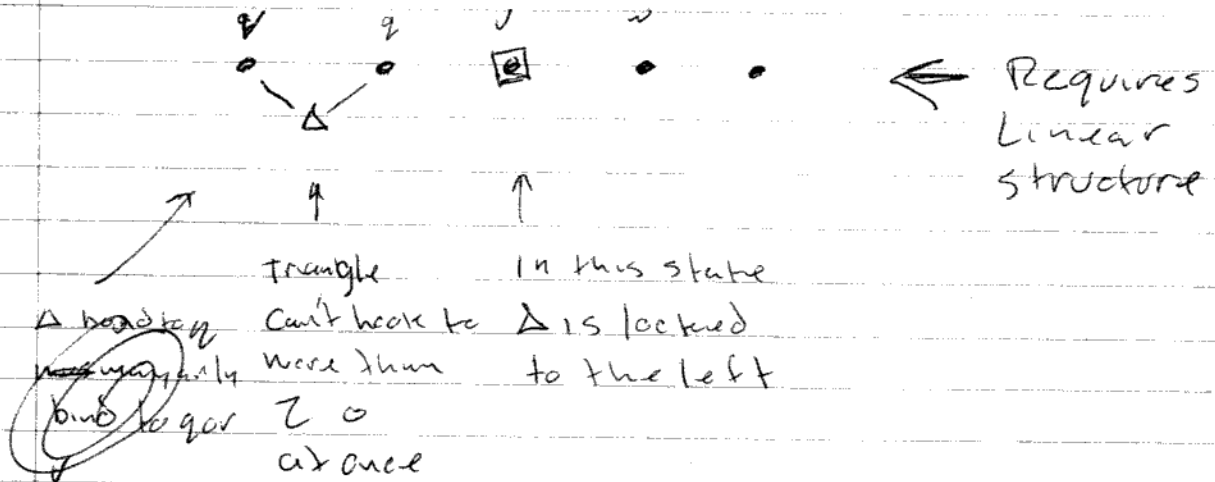
X, Z, Y Translation coupled for all points in Focal region

Rotation in XY plane not coupled

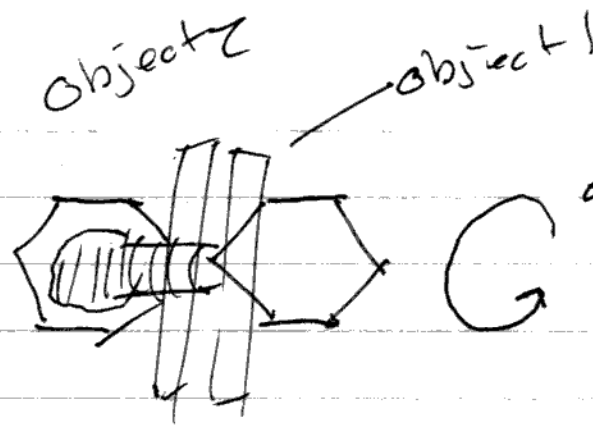
Uncoupling requires + Z translation  
of Pin

Coupling occurs because hitch can't occupy same space as pin and must occupy that space for independent translation in XYZ

# Example of locking in position



when bound  
to q must also  
bind to v



Distinct motion  
to Lock, Unlock

Rare motion  
Requires  
Structure,  
Intent

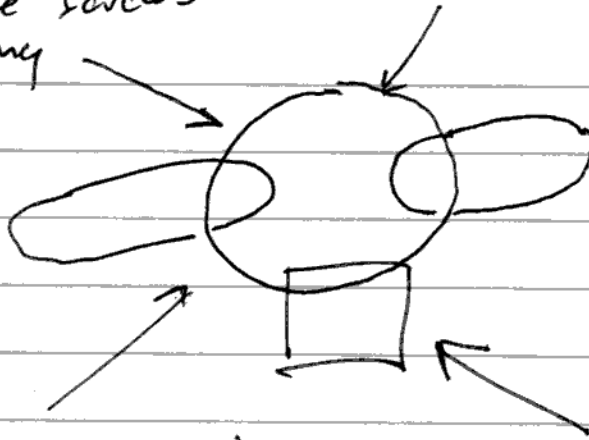
Requires  
Energy.

Can be defeated  
by large forces  
or cutting

Physical  
barrier

Prevents  
movement

~~most unbreakable~~  
hardest to escape  
when loops are  
entangled



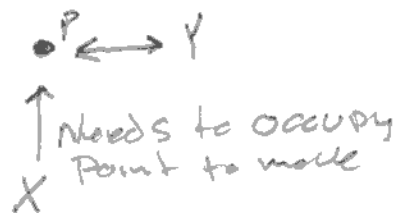
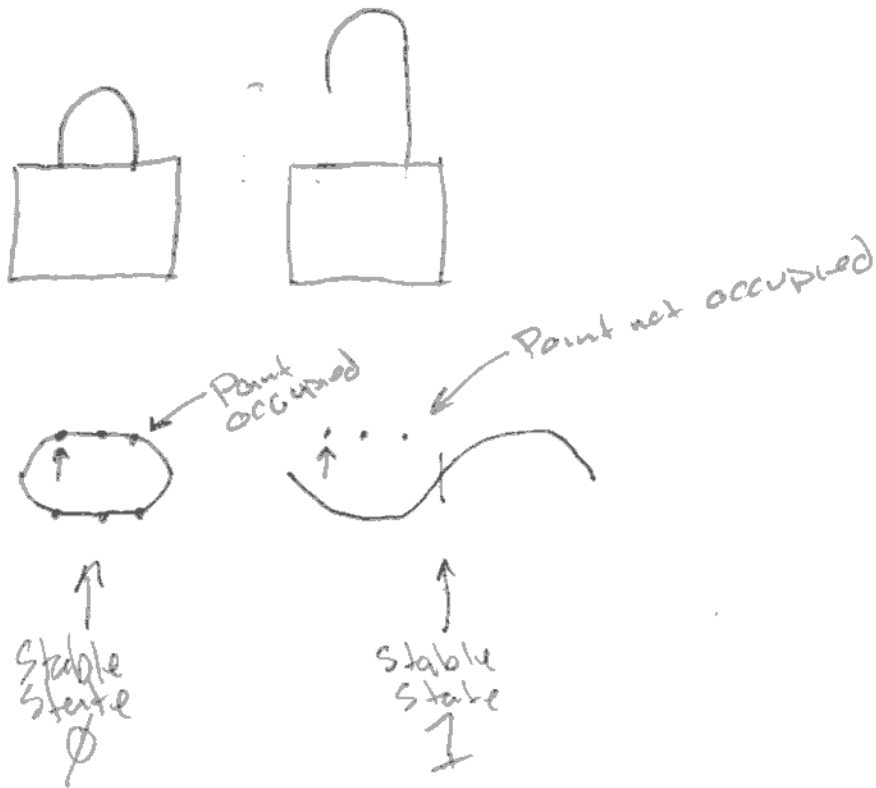
IS A generic  
mechanism

The lock is a tool  
holding other things  
in close proximity.  
Not generally part  
of other thing.

Has an event  
sequence which  
will unlock.

Event sequence  
is highly ~~improbable~~  
improbable with  
out structure

IF key is used  
both key and  
event sequence  
are required



$Y$  determines if  $X$  can move

It's Quantum locking

Remember concept of blocking state

...

State theory...

You unblock then move to next stable state