

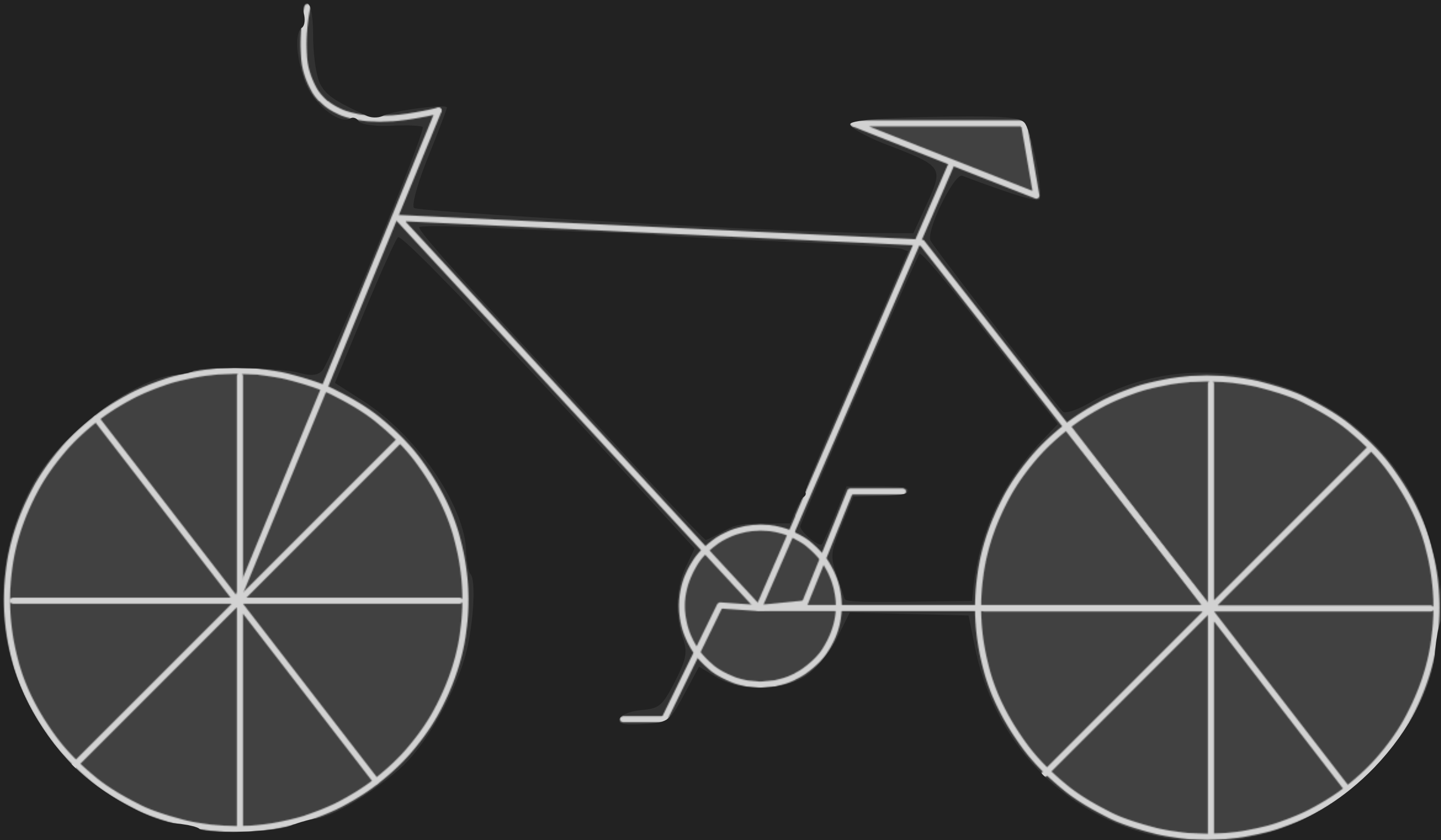
FINAL PROJECT 廖苡鈞 | 呂俐君 | 夏良語

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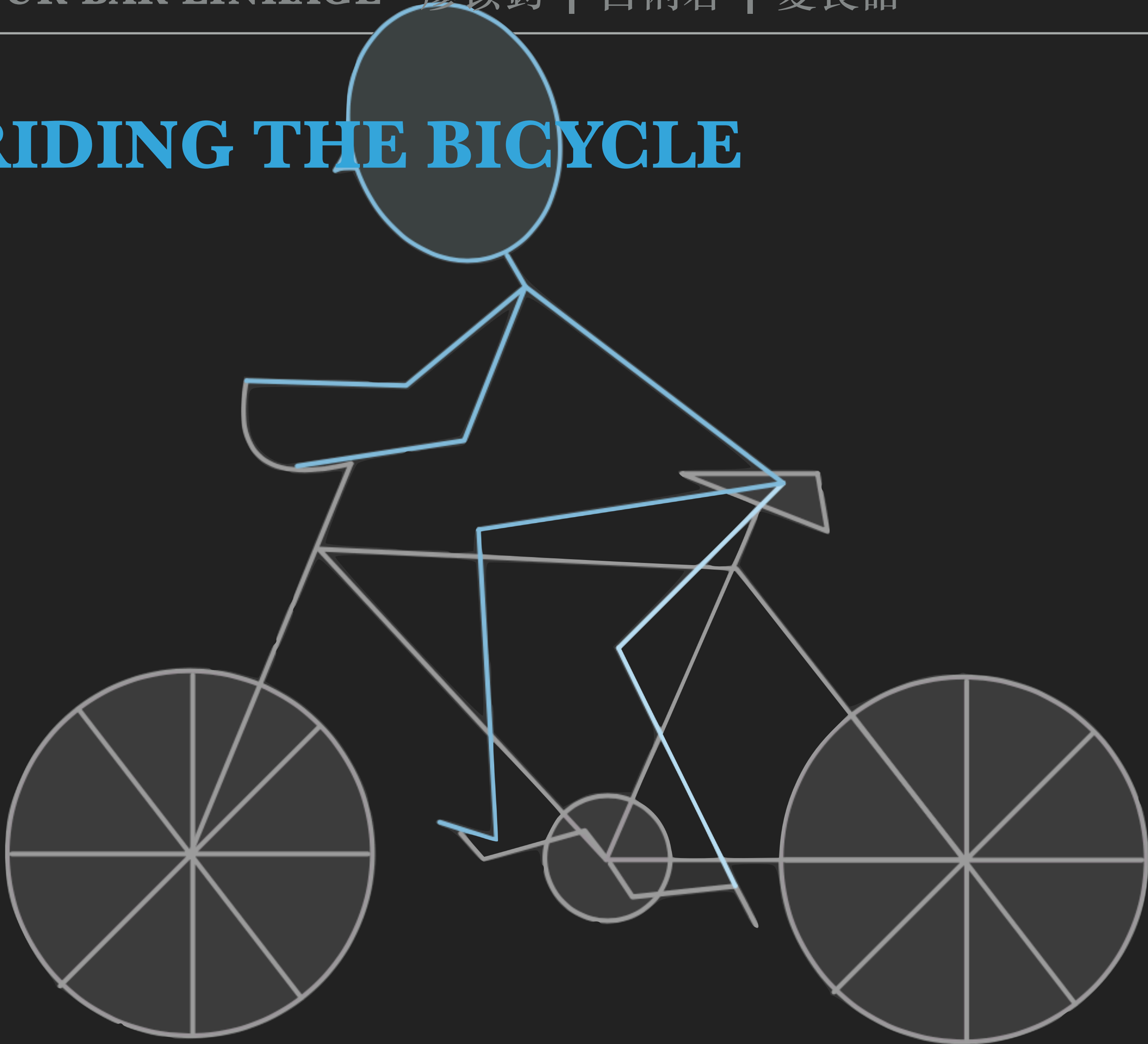
FOUR-BAR LINKAGE

四連桿機構

A BICYCLE



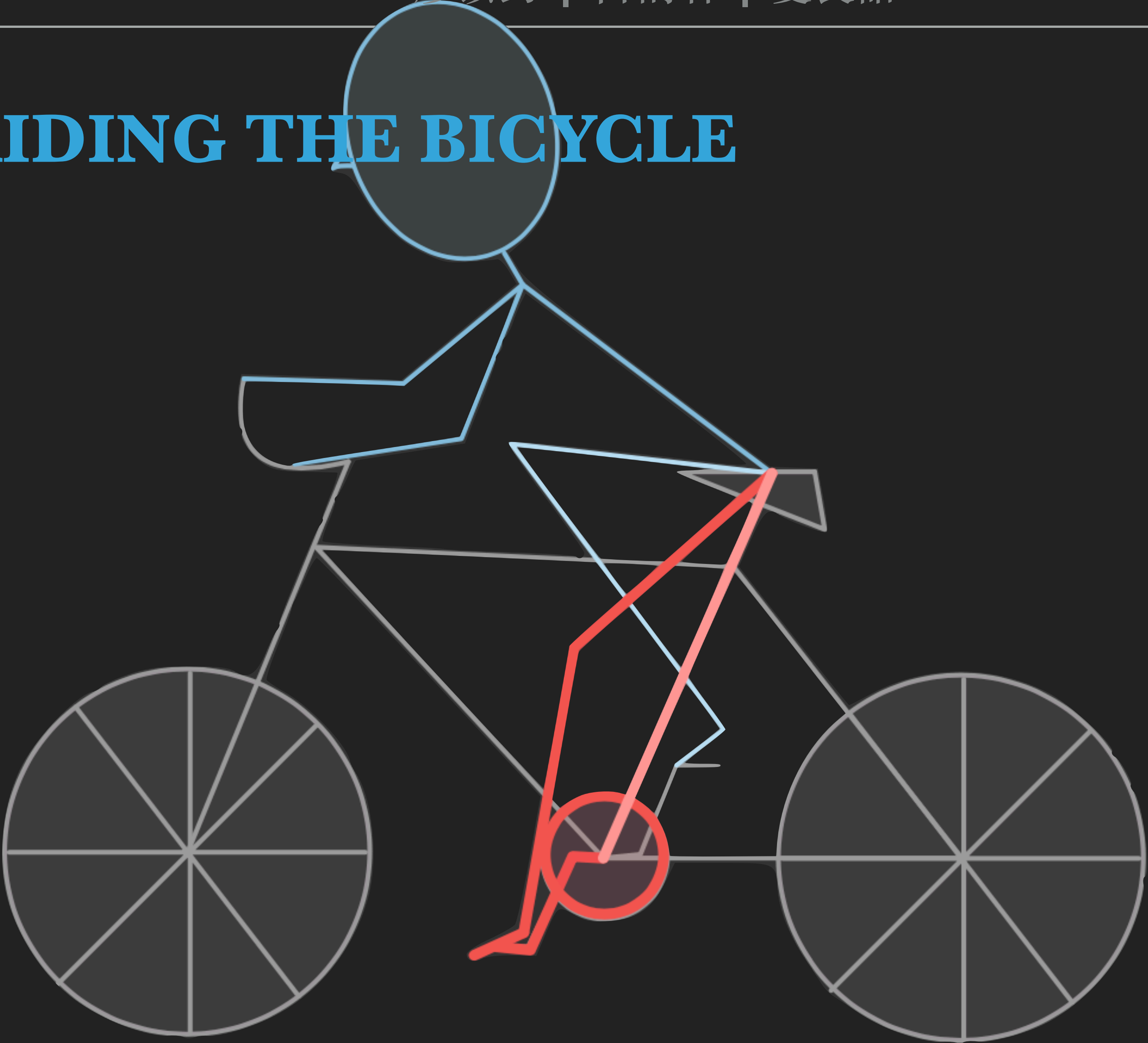
A PERSON RIDING THE BICYCLE



A PERSON RIDING THE BICYCLE



A PERSON RIDING THE BICYCLE

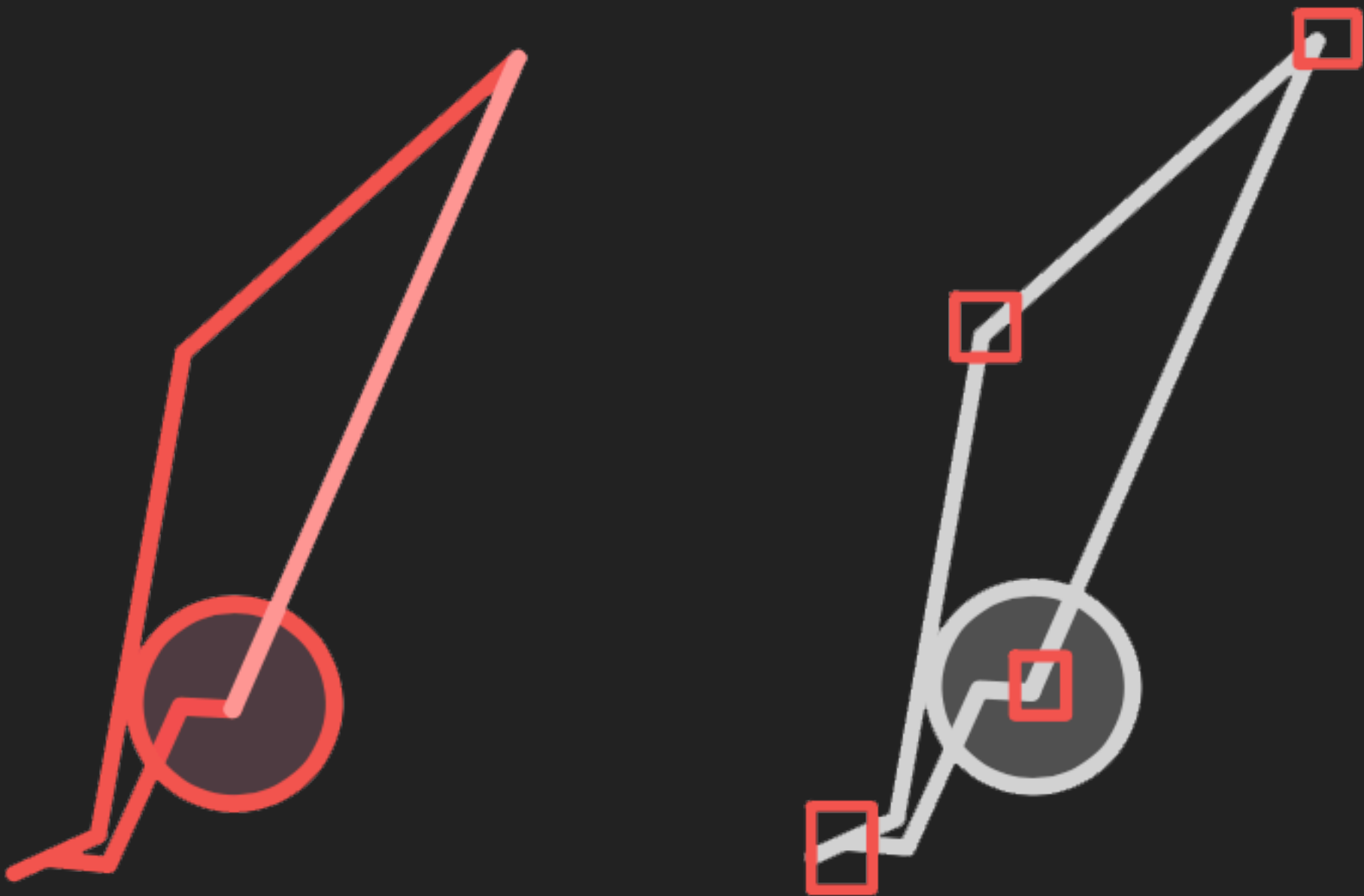


MODEL OF THE ACTION



MODEL

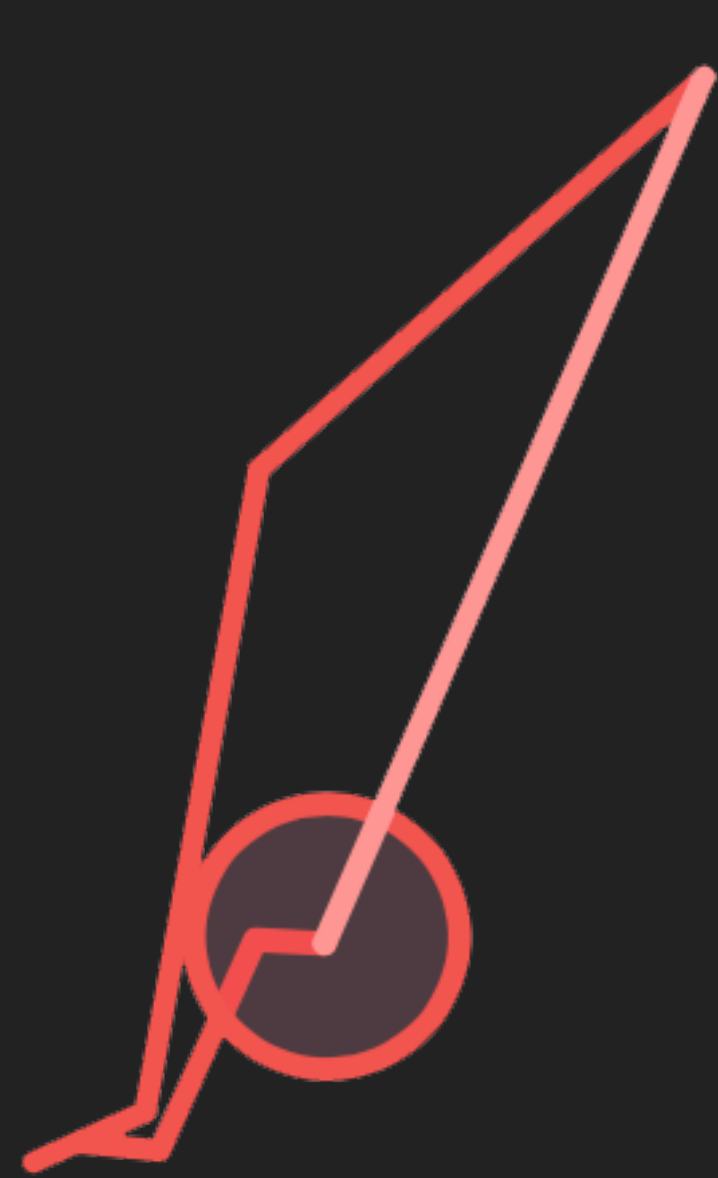
MODEL OF THE ACTION



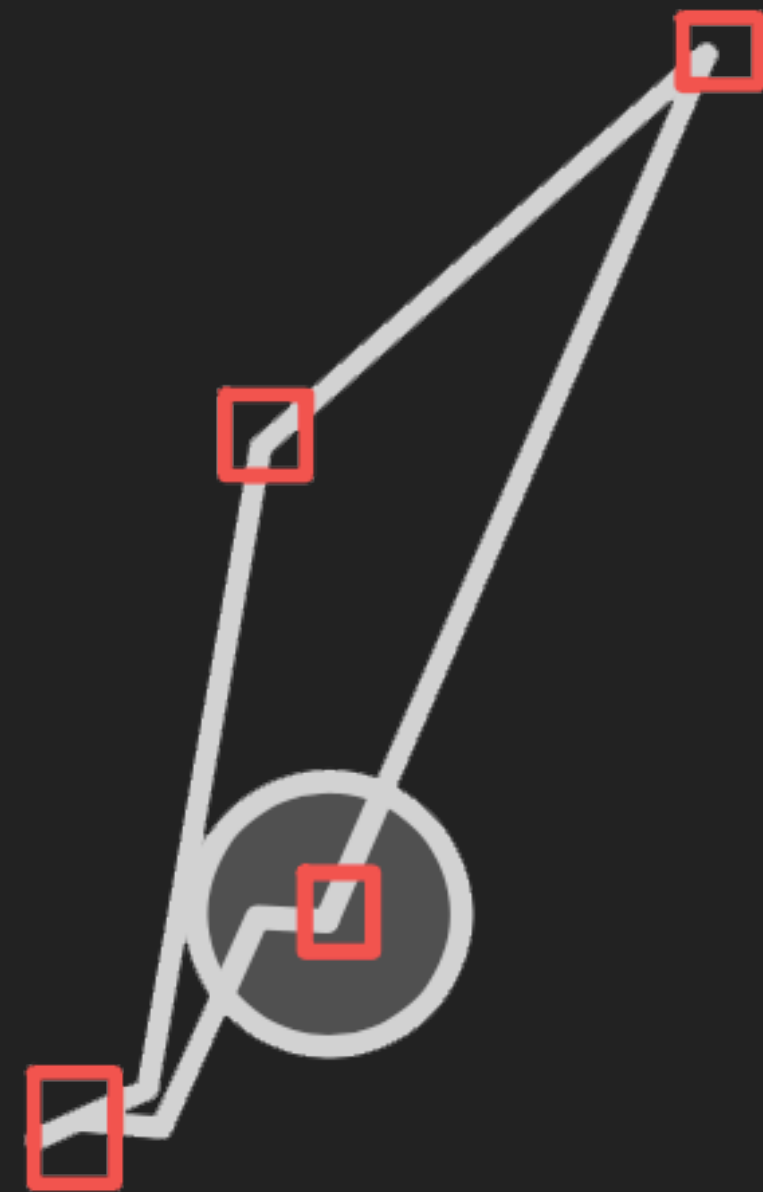
MODEL

PINS

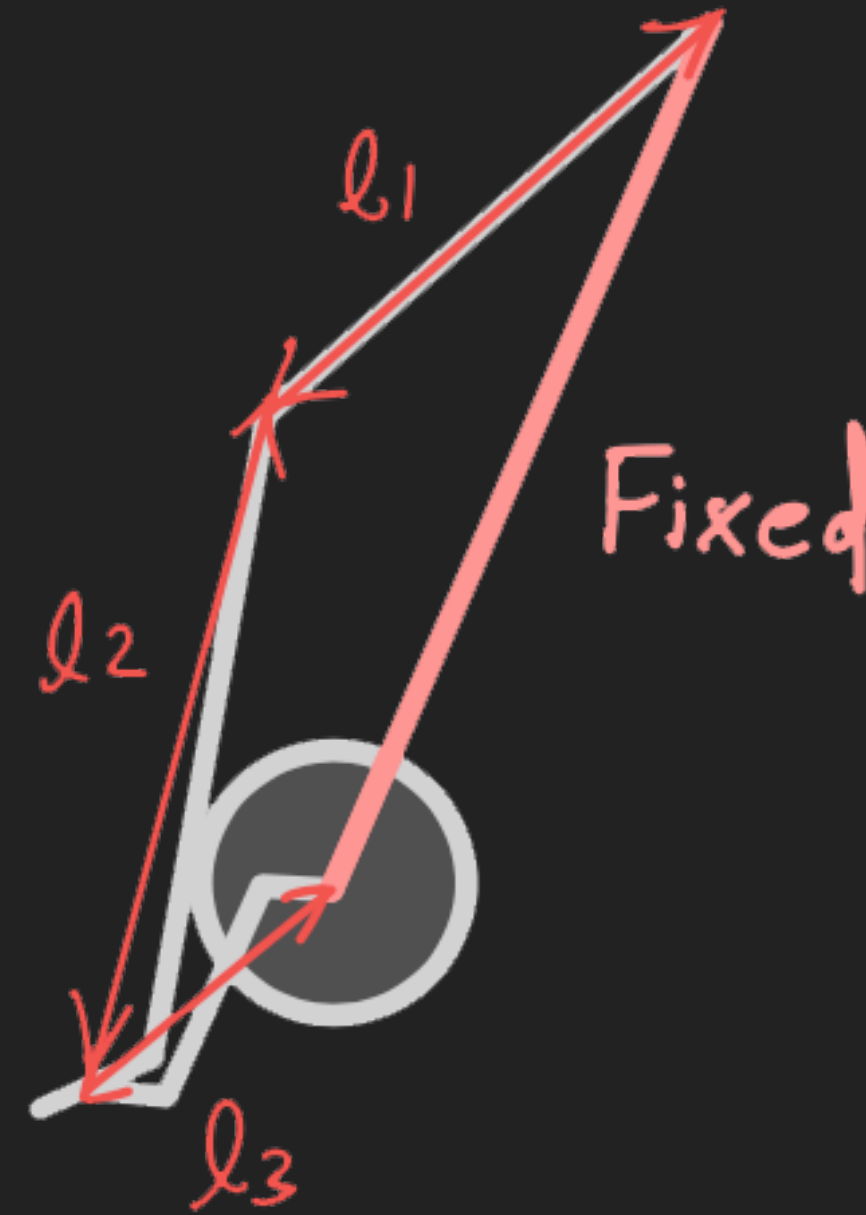
MODEL OF THE ACTION



MODEL

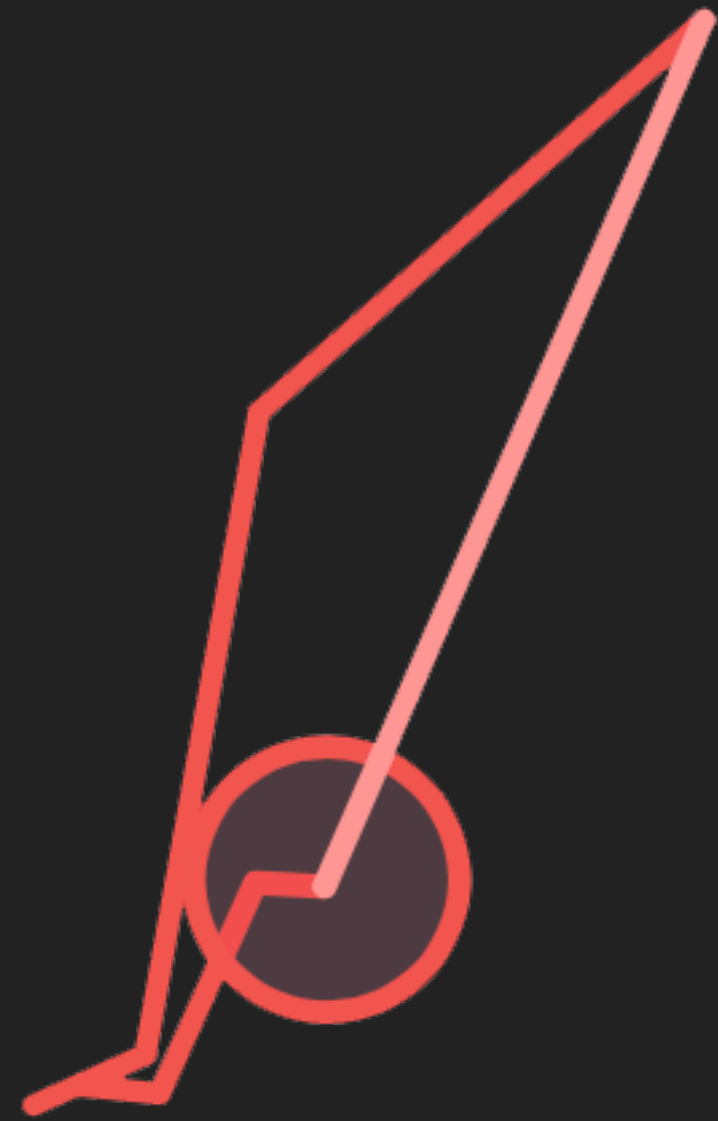


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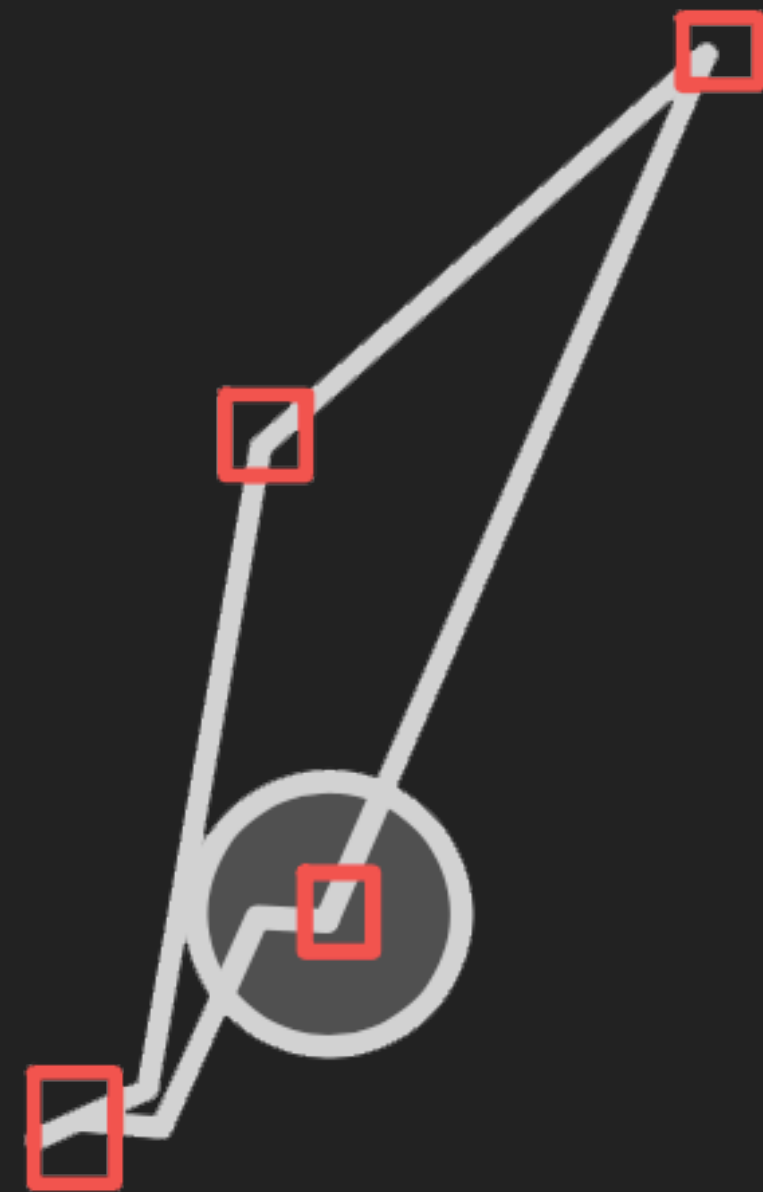


RODS

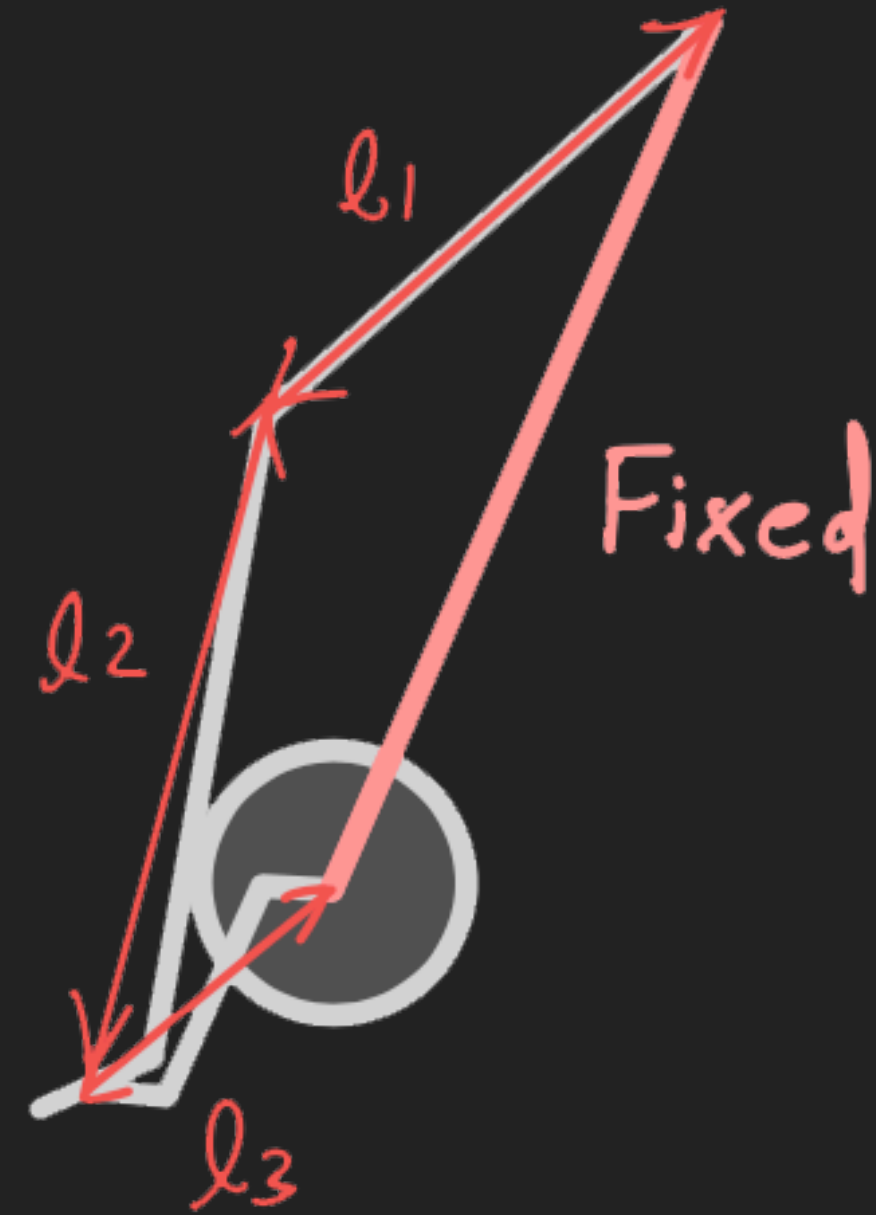
MODEL OF THE ACTION



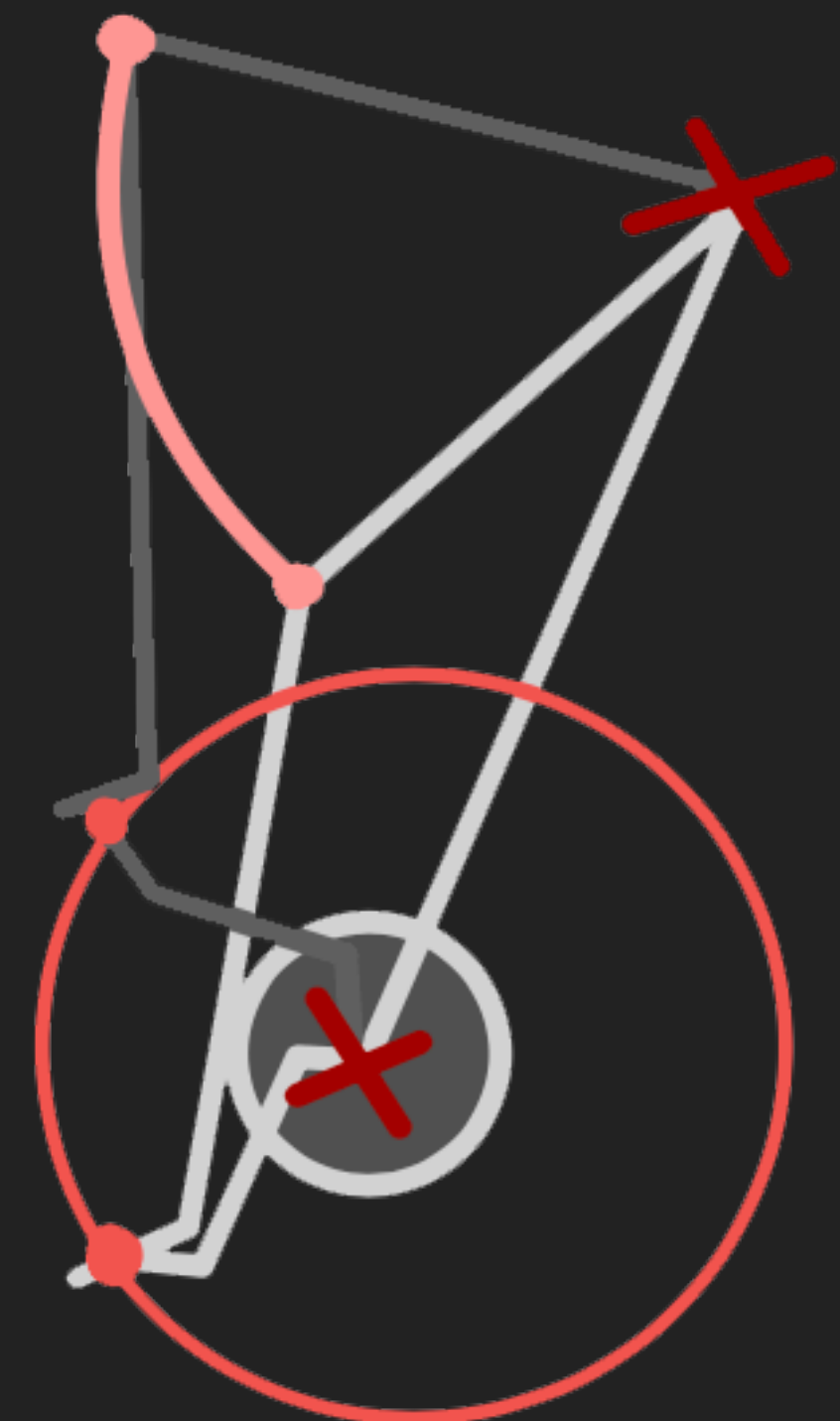
MODEL



PINS

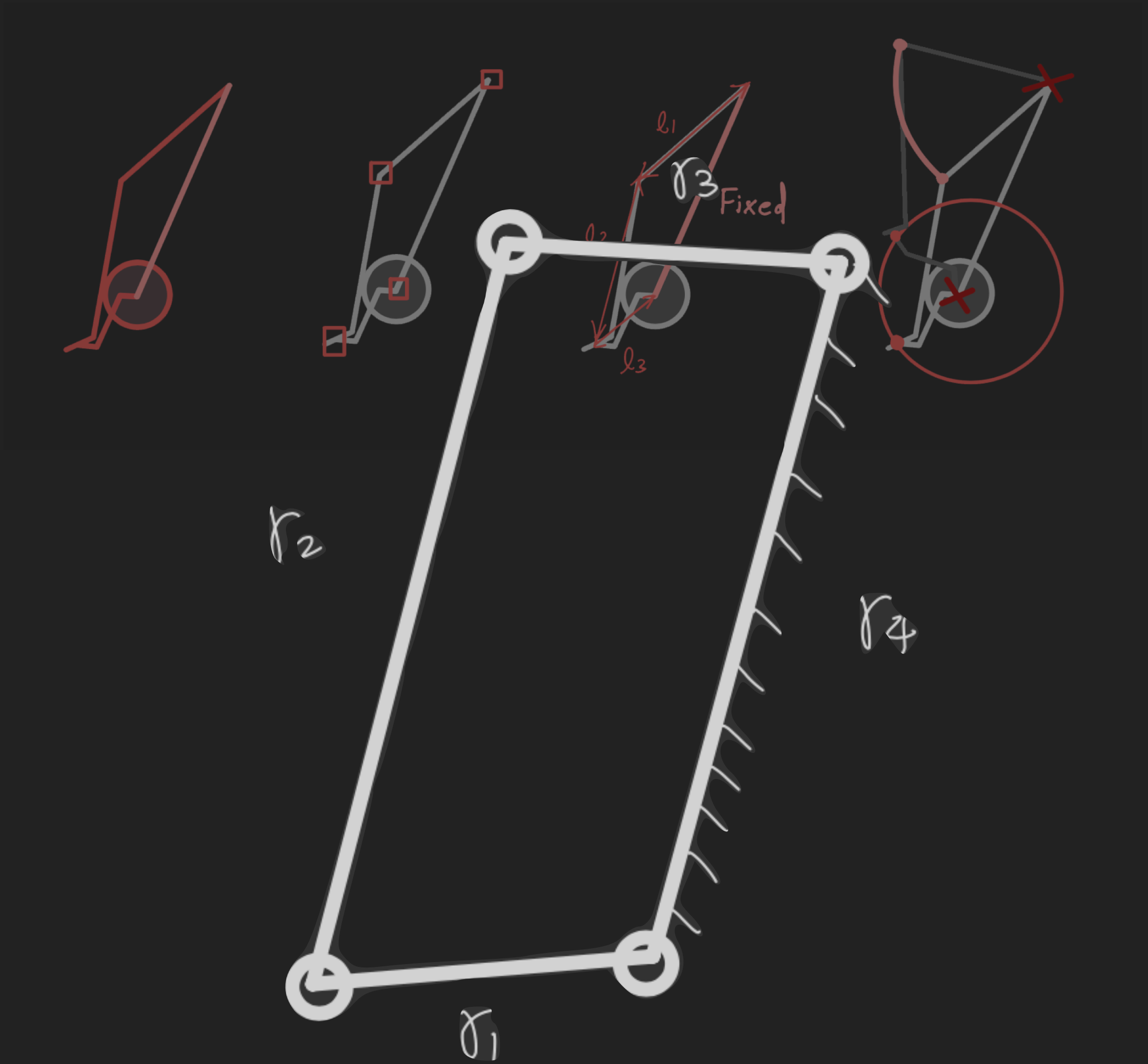


RODS

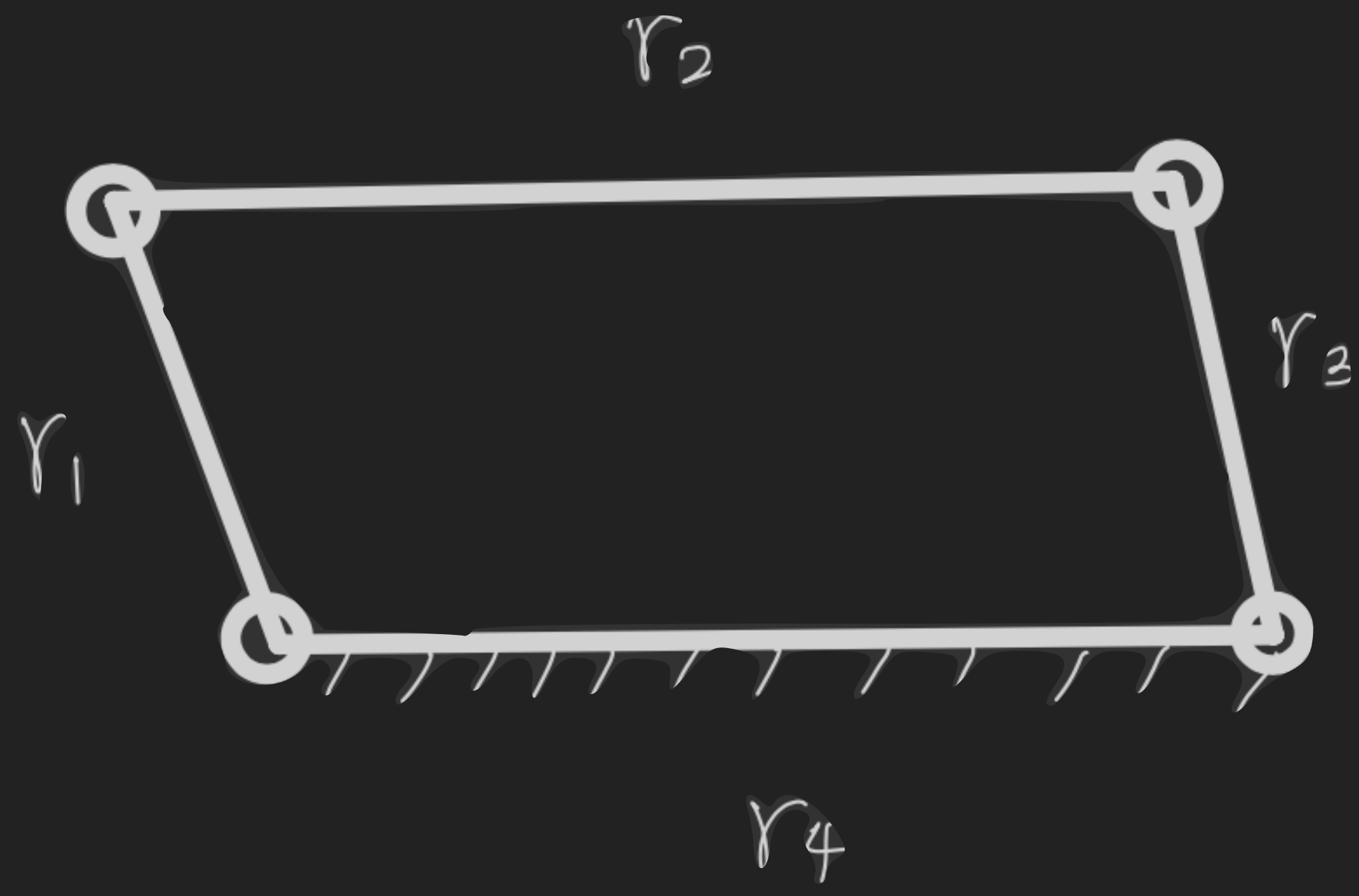
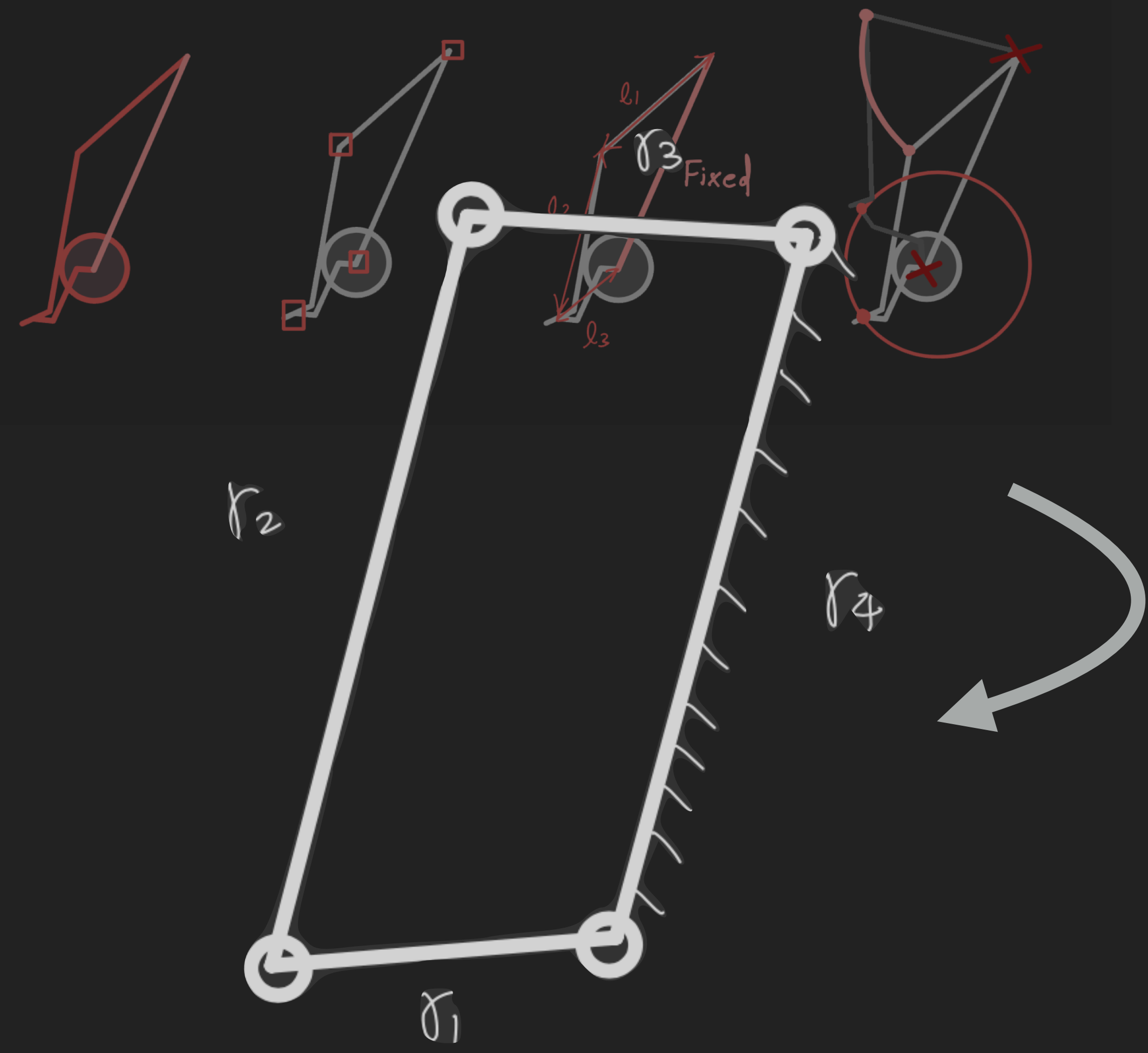


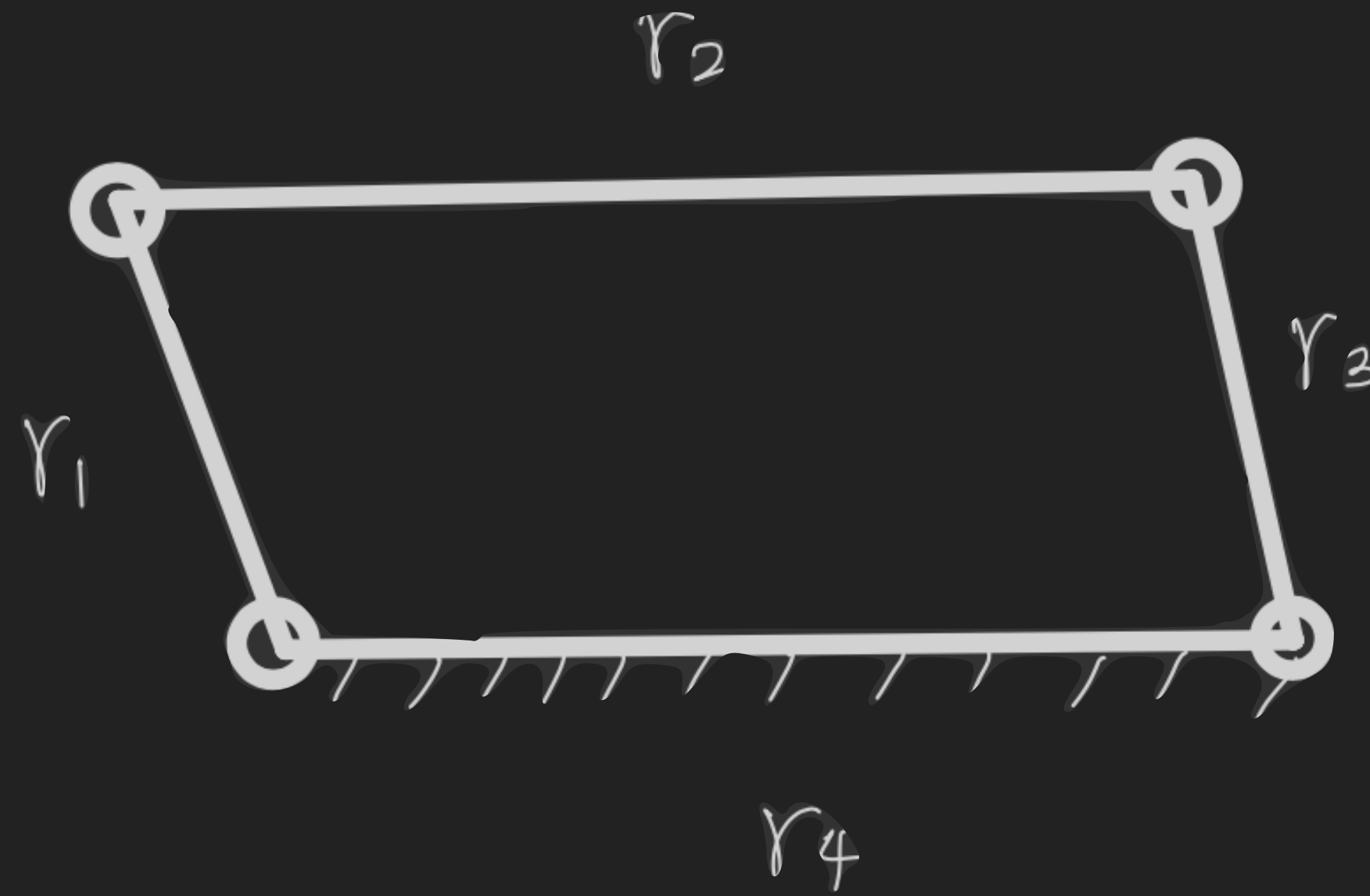
TRAILS

MODEL OF THE ACTION



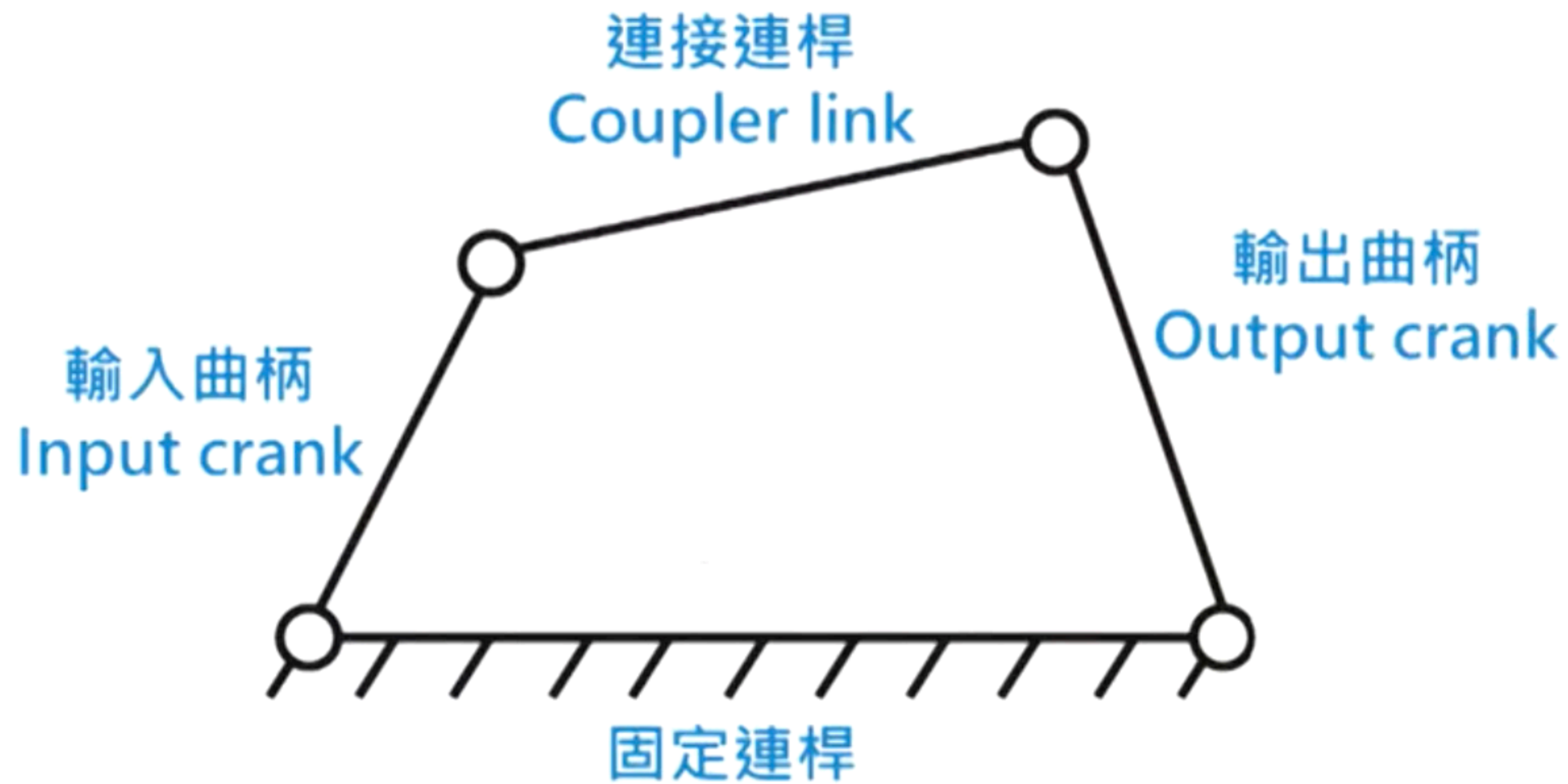
MODEL OF THE ACTION





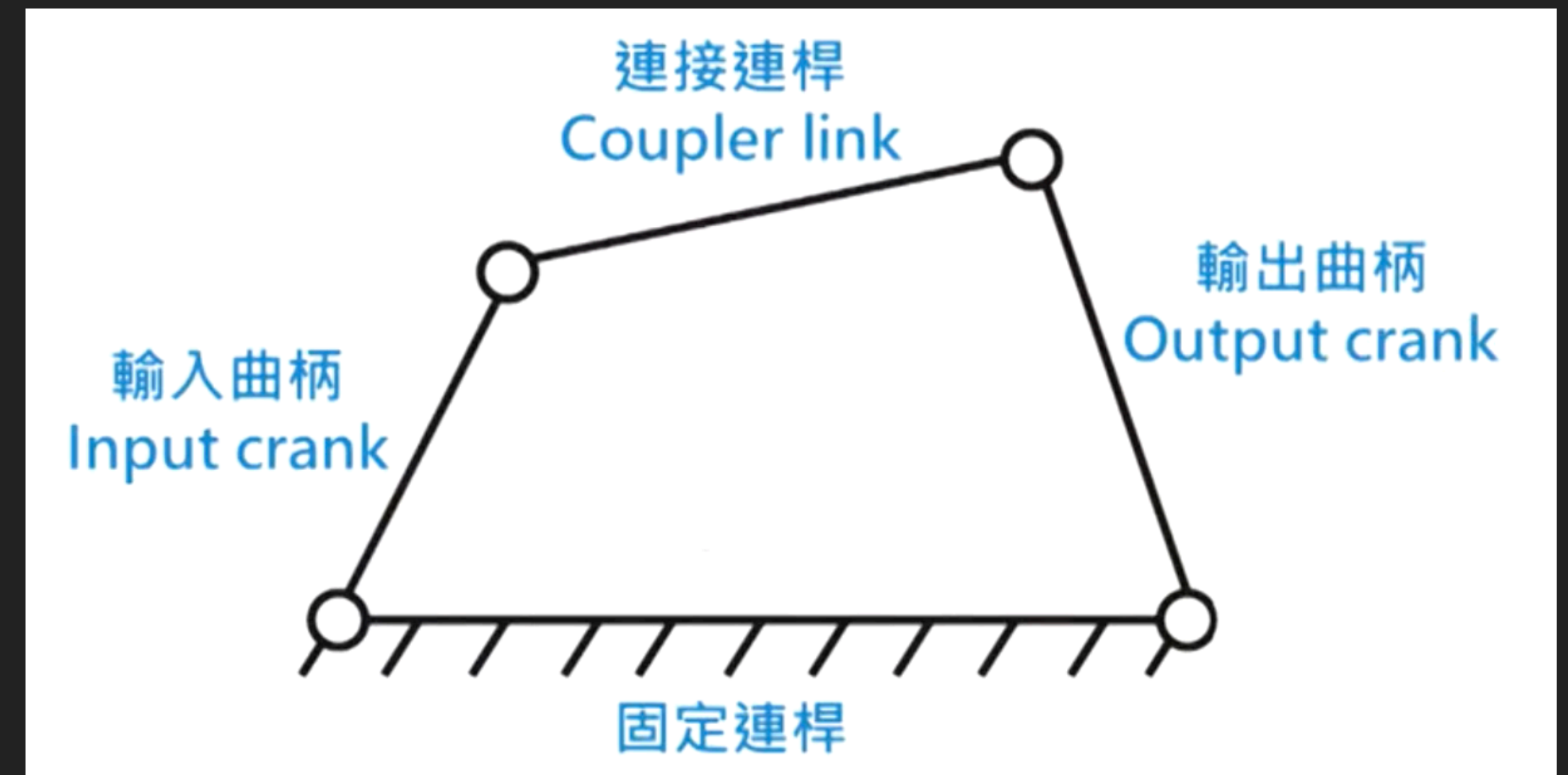
FOUR-BAR LINKAGE

四連桿機構



GRASHOF LAW

- ▶ 若四連桿中，最短和最長的連桿長度和 $<$ 另外兩個連桿長度和，那麼其中至少一個連桿可以相對於其他連桿做360度完全旋轉
- ▶ 若不符合上述條件，則沒有任一連桿能完全旋轉

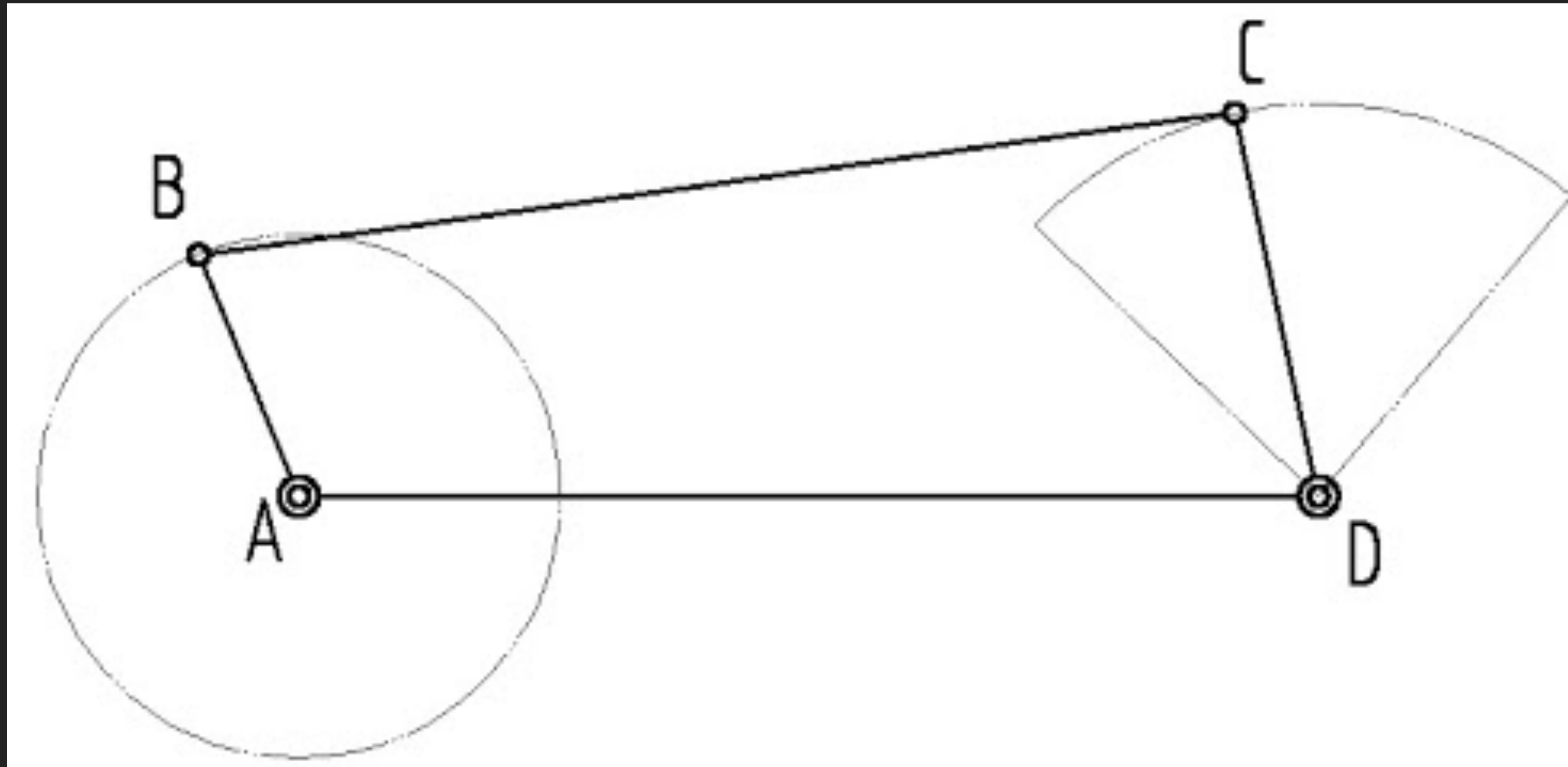


三種四連桿機構

- ▶ 曲柄搖桿
- ▶ 雙曲柄
- ▶ 雙搖桿

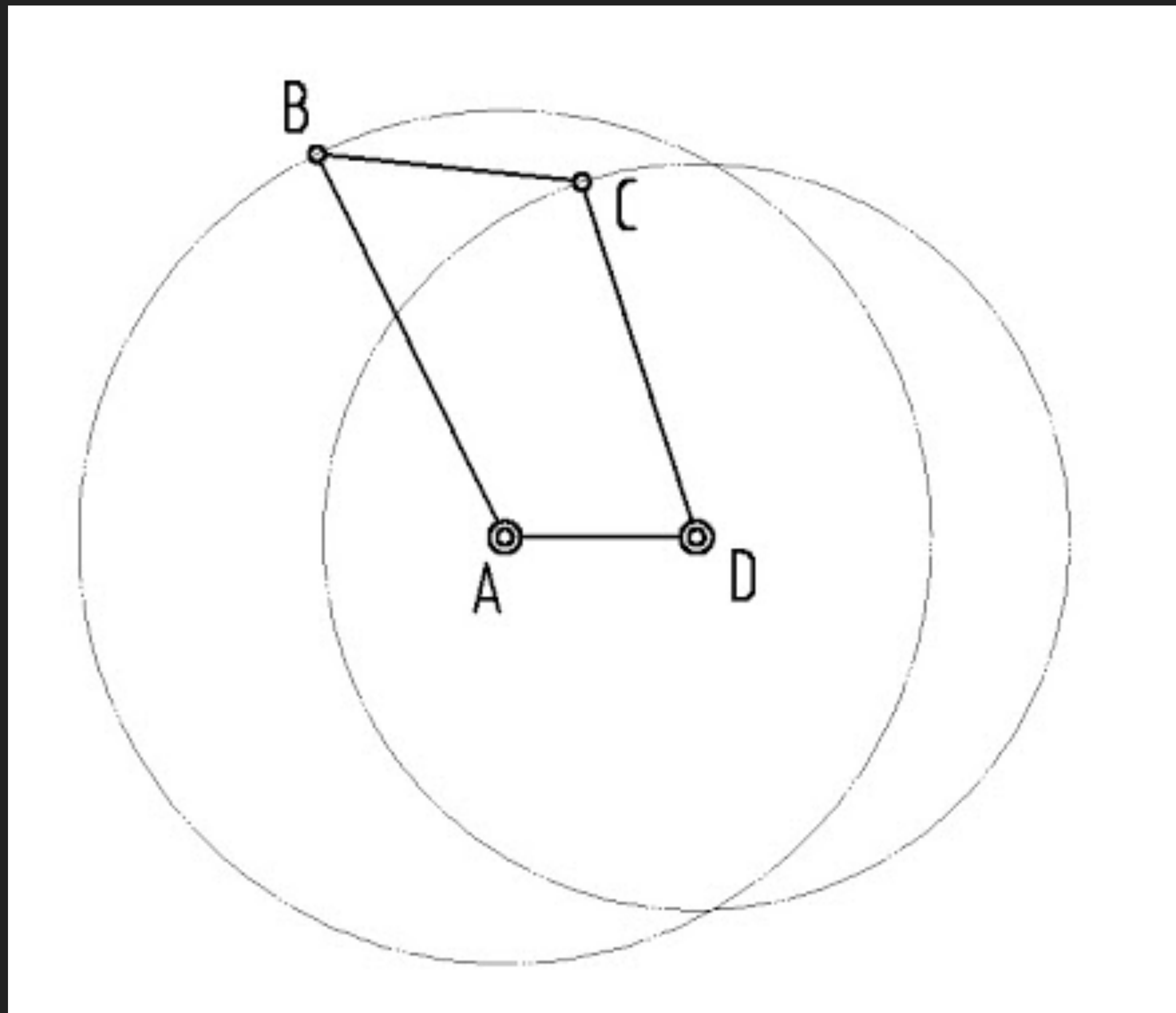
曲柄搖桿

- ▶ 輸入曲柄最短，可360度旋轉



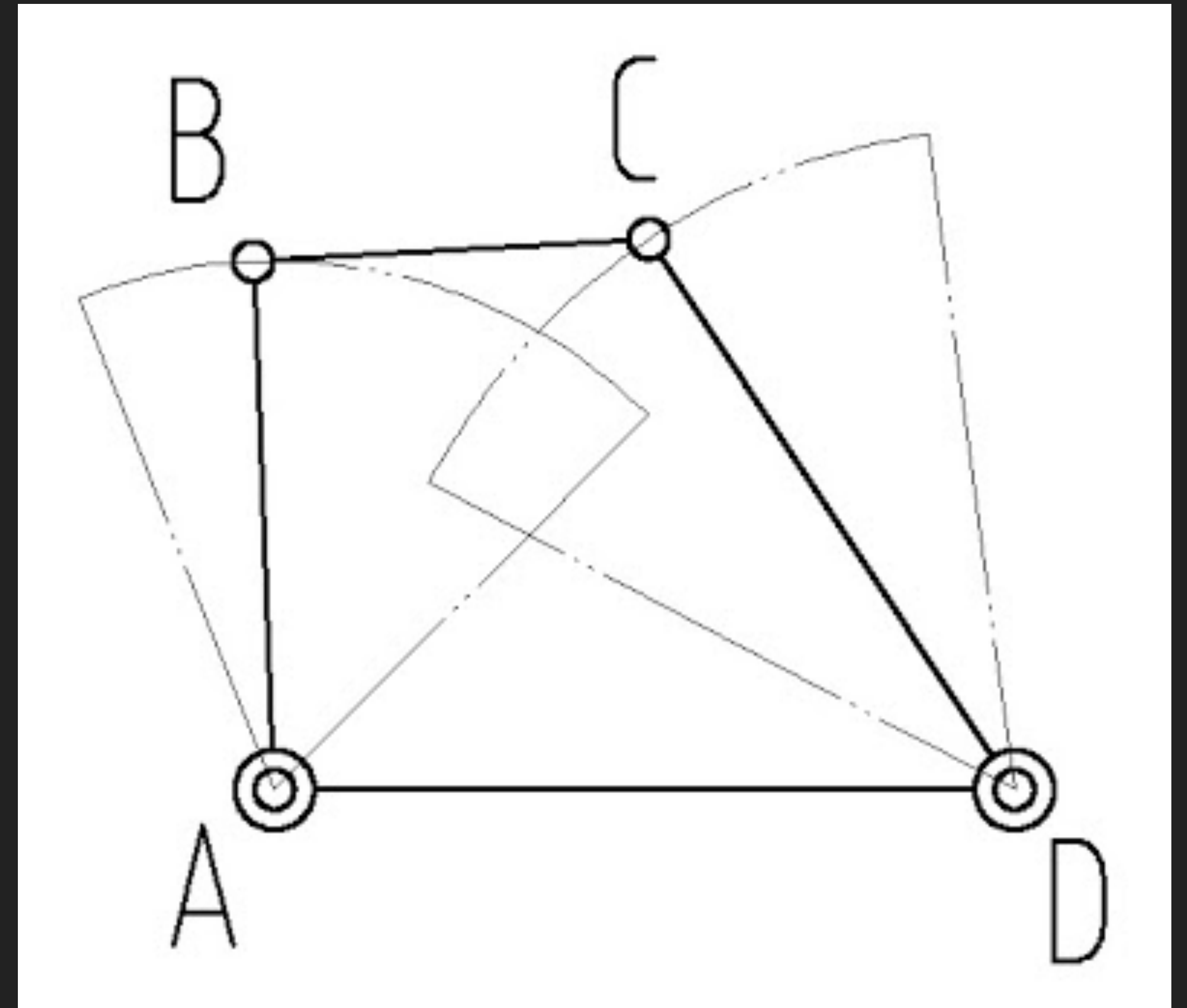
雙曲柄

- ▶ 固定連桿最短，其他三根皆可360度旋轉



雙搖桿

- ▶ 連接連桿最短，連接連桿做360度旋轉，輸入和輸出都只能往復震盪



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THANK YOU