6.885
L17.5
Nov. 10, 2004

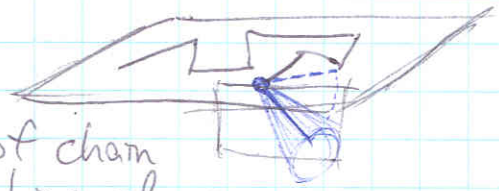
What is producible?

- α-canonical config. is β-producible for $\alpha/2 \le \beta \le 180° - \alpha/2$
  - canonical config. remains in complementary cone B_β
  - $\Rightarrow$ produces "rigidly" (no spinning required)

$\Rightarrow$ ($\le\alpha$)-chain ($\ge\alpha$)-producible $\Rightarrow$ β-producible for $\alpha/2 \le \beta \le 180° - \alpha/2$

- β-produce α-canonical config.
- reverse canonicalization procedure far away from C_β.

- flat states of ($\le\alpha$)-chains are β-producible for $\alpha \le \beta \le 90°$.
  - imagine moving cone instead of chain
  - create next link in vertical plane
  - slide up to plane of chain with cone just touching plane
  - repeat



$\Rightarrow$ flat-state connected
- canonicalize. FedEx

$\Rightarrow$ for ($\le\alpha$)-chains & $\alpha \le \beta \le 90°$,
a configuration is flattenable $\Leftrightarrow$ it is β-producible.