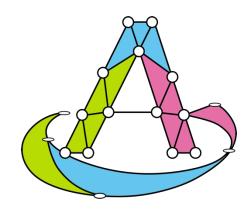
Reserch Progress

Meeting on November 5

Takumi Shiota.

Movember . 5, 2024

@ NUS

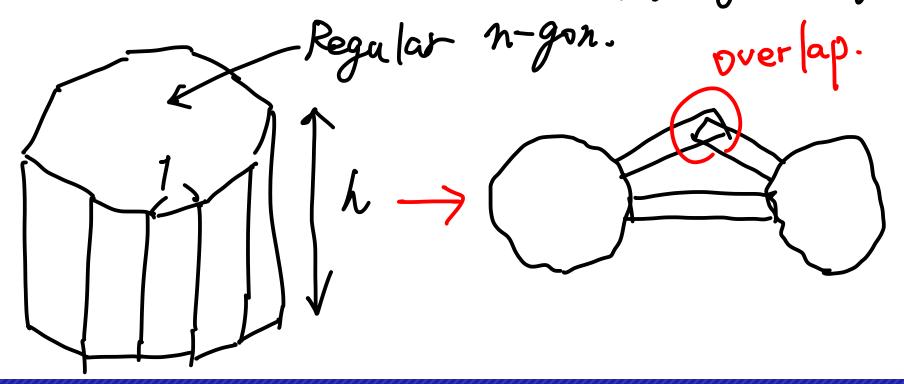


Problem setting.



Problem

Let's consider an n-gonal prism of hight h. For which value of n & h does the prism have overlapping edge unfolding?

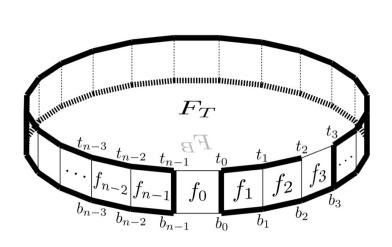


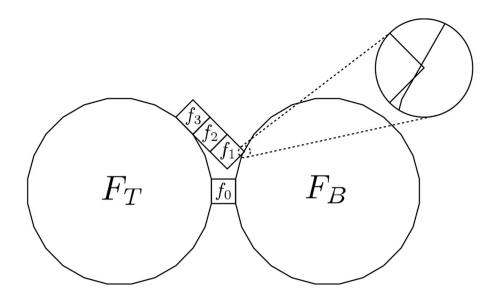
Background of this study



[T. Shiota and T. Saitoh, 2024]

Lf R=1. and nz24, then n-gonal prism have overlapping edge unfolding.

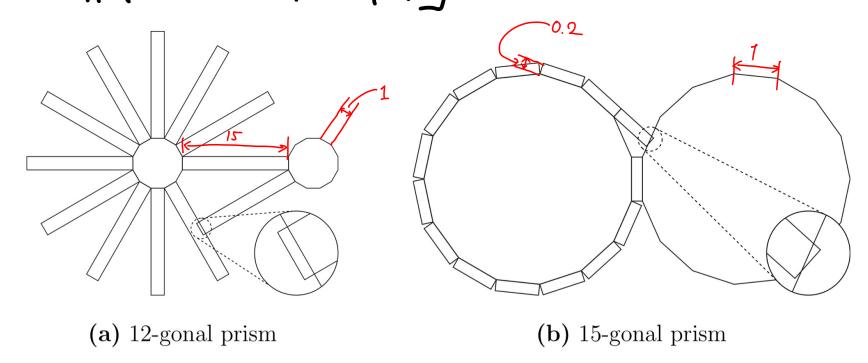




Courstion. How about $k \neq 1$?

Background of this study [Schlickenrieder, 1997]

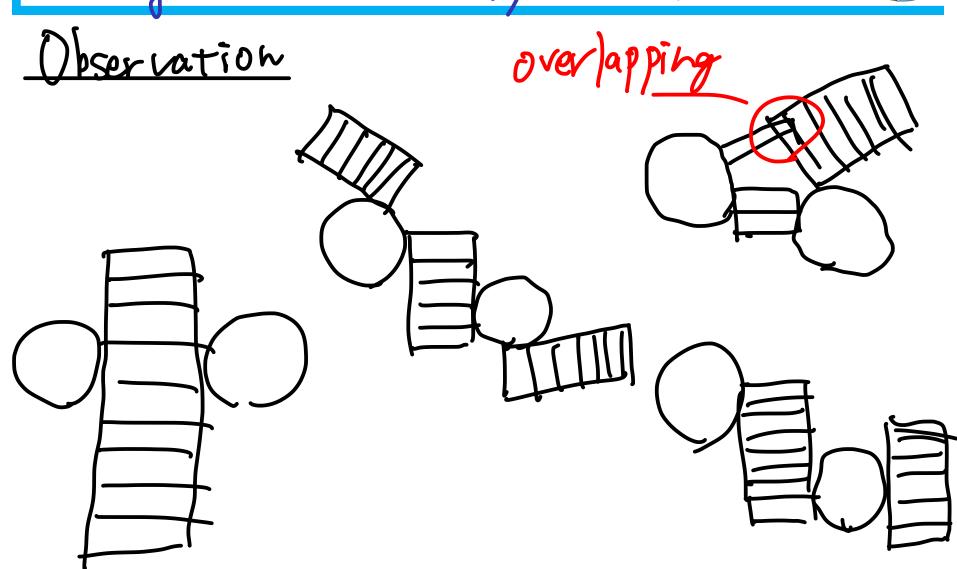




If n < 24, prism have overlapping edge unfolding.

Meeting with Tonan & Rywhei last week.

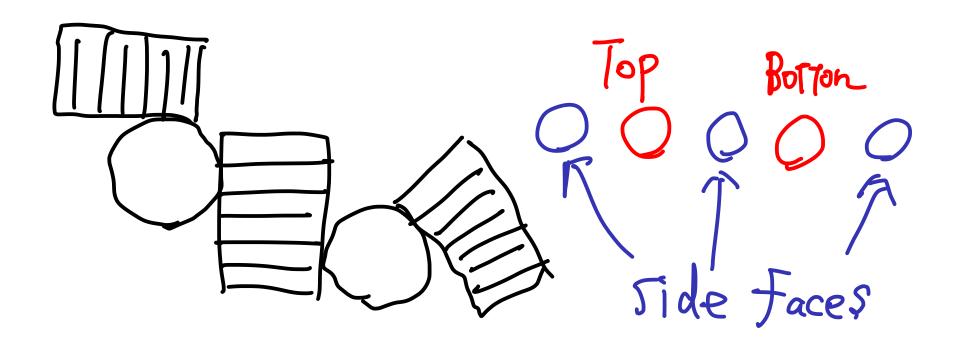




Meeting with Tonan & Rywhei last week.



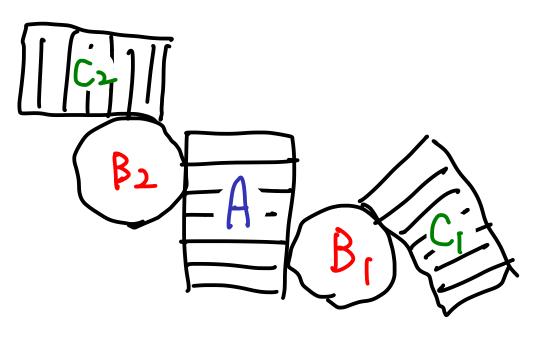
We can only consider the following type.



Meeting with Tonan & Rywhei last week.



We can only consider the following type.



We only check. the overlap:

1. A ↔ C, 2. C, ↔ B≥ 3. C, ← 7 C₂

Meeting with Tonan & Ryuhei last week.



We can only consider the following type. We only check. the overlap: 1-A-C; 2. C, () B > 3. C147 (2

Note



