

# LARGE MODULES

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# PROs and CONs of larger modules

- The size of the LP modules has been determined by the need to place 7 of them in the available magnet (diameter 82 cm) : about  $17 \times 21 \text{ cm}^2$  , with 'rounded keystone' shape.
- Advantages
  - Less (back-frame) overhead
  - Less cracks, also less distortions
  - easier to align
  - Fewer kinds of different modules (typ. 4 instead of 8)
- But size limited by detector planeity and capacity.
- Factor of 4 larger seems feasible :  $40 \times 40 \text{ cm}^2$ , like T2K.  
8000 channels for outer modules, >16000 channels for the 1st wheel.