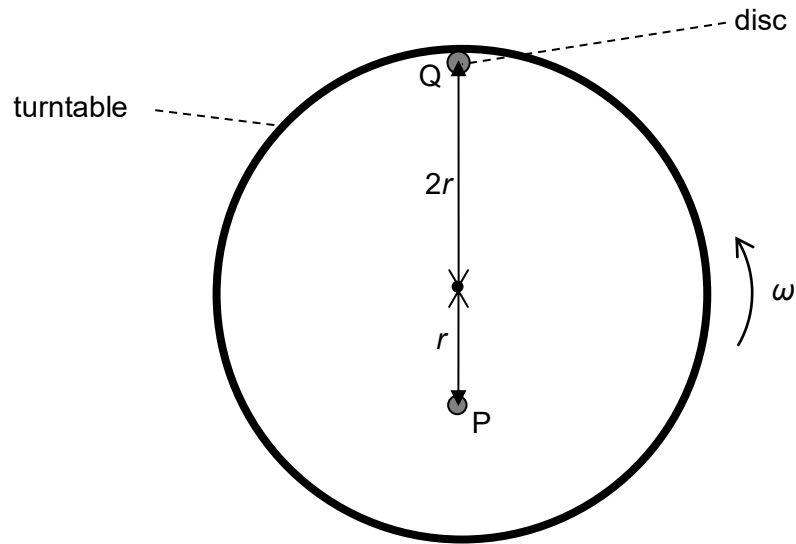


- 9 Two discs P and Q of mass m and $2m$ respectively are placed on a rough, horizontal and level turntable as shown in the diagram. P and Q are at a distance of r and $2r$ from the centre of the turntable respectively. The turntable starts rotating from rest with gradually increasing angular velocity ω .



Top View

Given that the maximum frictional force acting on P is half of that on Q, which of the following is correct?

- A P will slip first.
- B Q will slip first.
- C P and Q will slip at the same time.
- D Neither P nor Q will slip.

