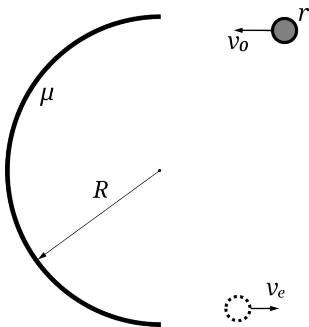


T1: Sliding puck (10 pts)

A puck (a small disc) with radius r and uniform density is moving on a horizontal plane with the velocity v_0 without rotation. The puck meets a fixed half-circular wall with a radius $R \gg r$ and starts to move along the wall. The coefficient of friction with the wall is μ , and friction with the horizontal plane is negligible.



- (8 pts) Find the velocity of the puck v_e when it leaves the wall.
- (2 pts) Sketch the graph $v_e(\mu)$. Indicate important features of the graph. You are encouraged to sketch the graph even if you haven't found the exact formula for v_e .