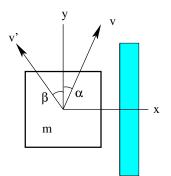
[mex219] Grazing collison between flat surfaces

Consider a cube of mass m in translational motion with velocity \mathbf{v} on a frictionless airtrack. The cube is approaching a wall at a grazing angle α with one of its sides parallel to the wall. The coefficient of kinetic friction between the cube and the wall is μ . Determine the angle β describing the direction of the velocity \mathbf{v}' the cube has after the collison. Assume that the recoil motion of the wall is negligible.



Solution: