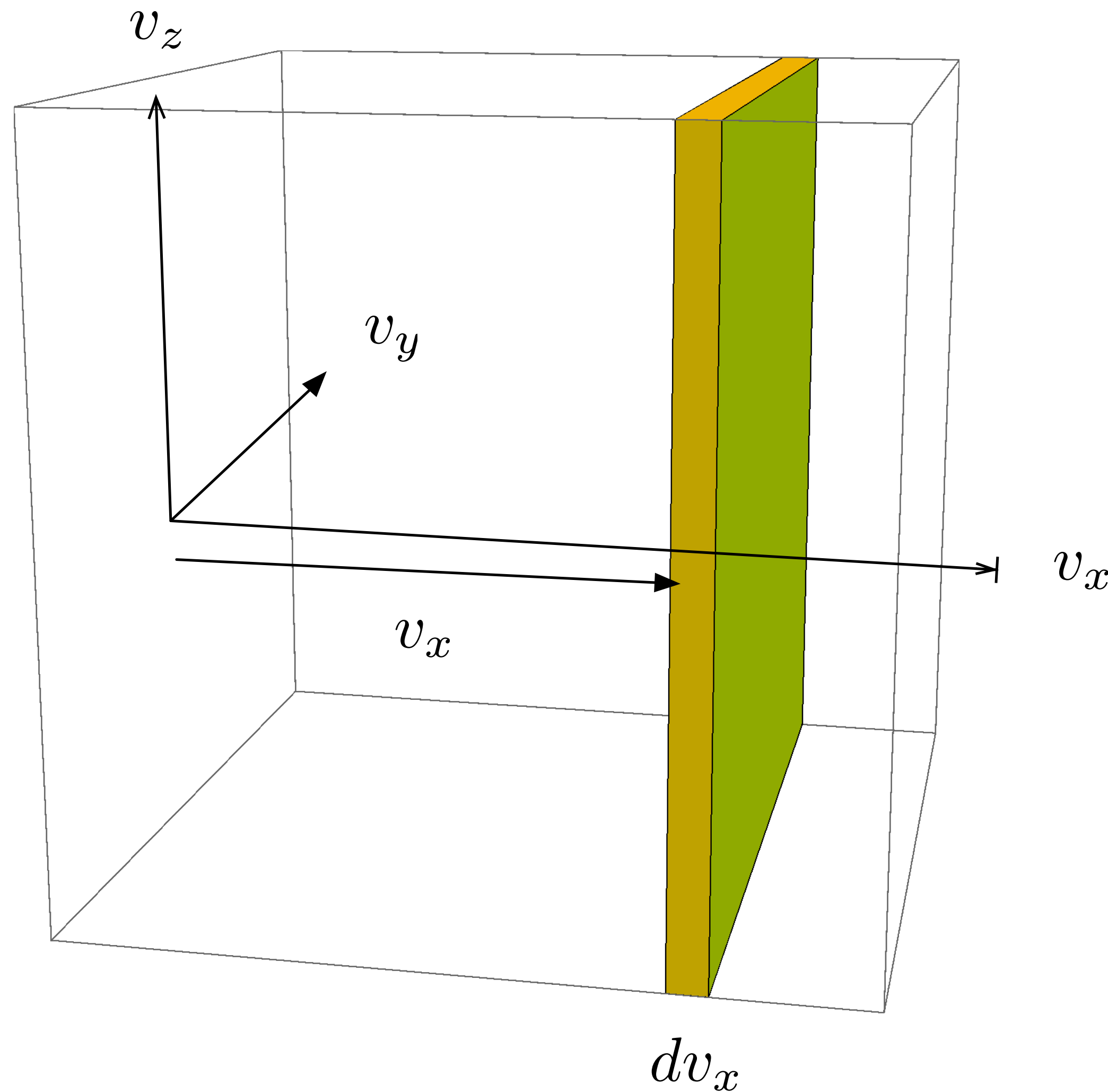


Probability to have x-component of velocity



Integrate over v_y, v_z

Probability of speed v

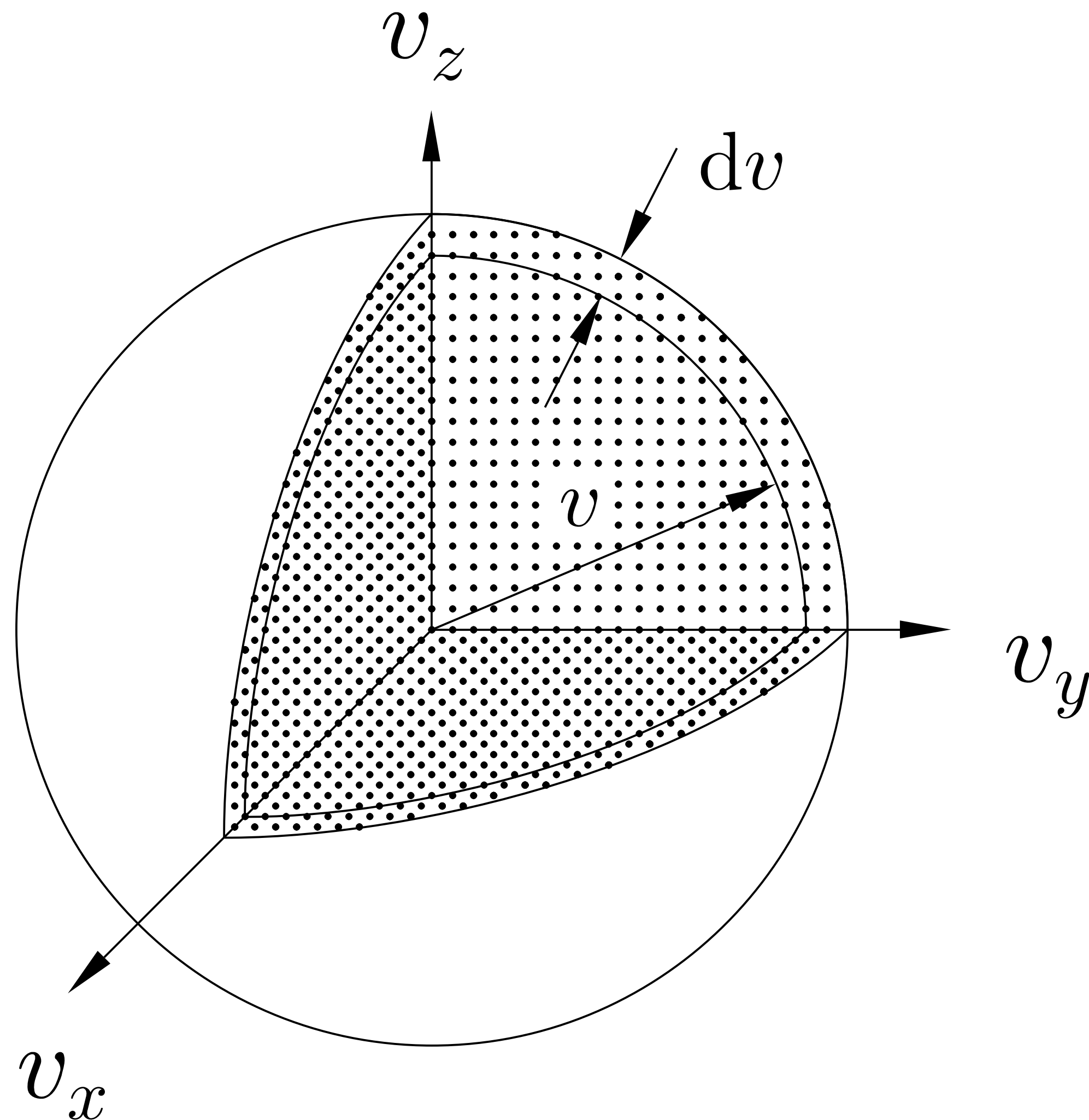


Fig. 5.3 Molecules with speeds between v and $v + dv$ occupy a volume of velocity space inside a spherical shell of radius v and thickness dv . (An octant of this sphere is shown cut-away.)