

Probability of speed v

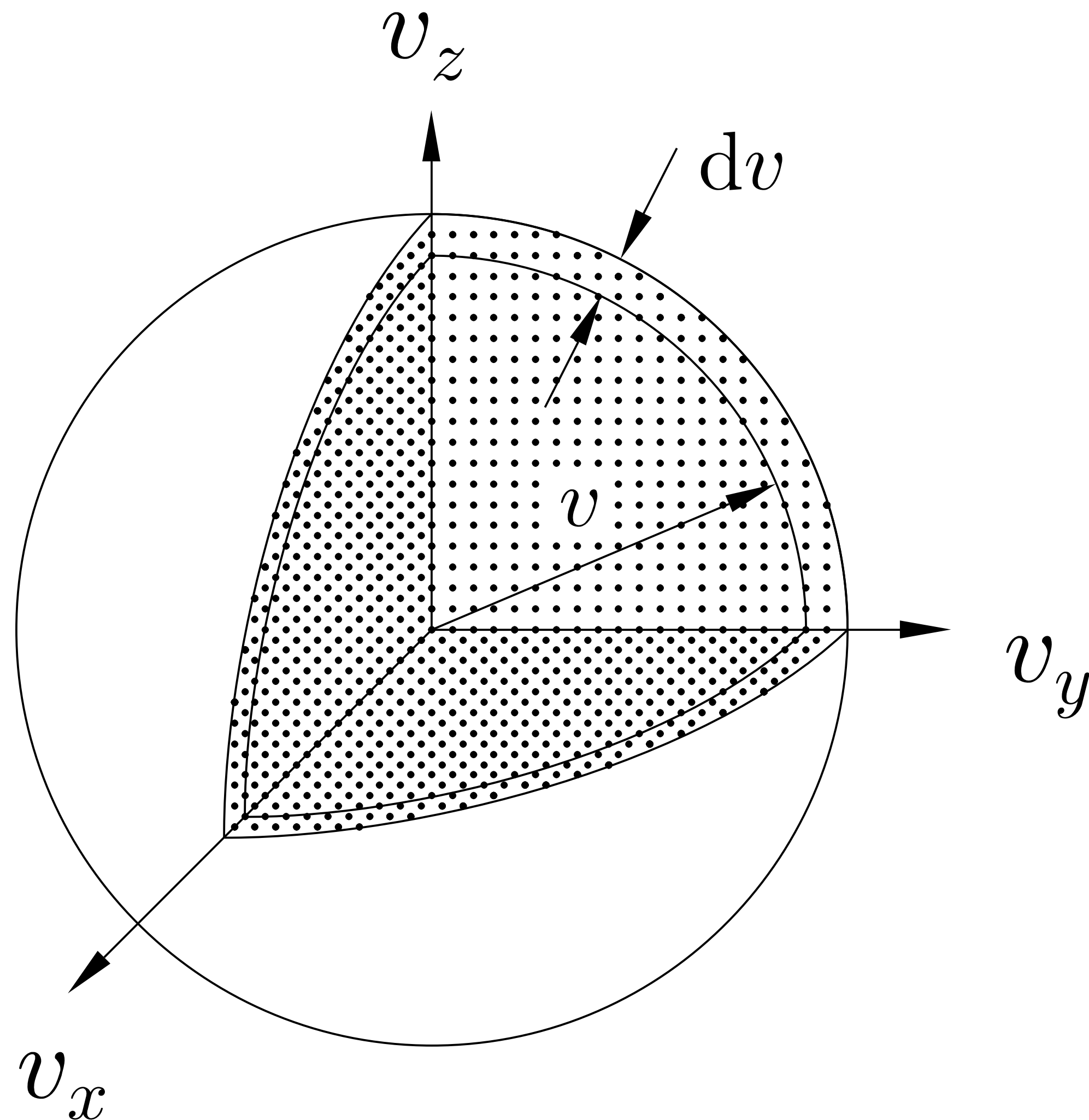
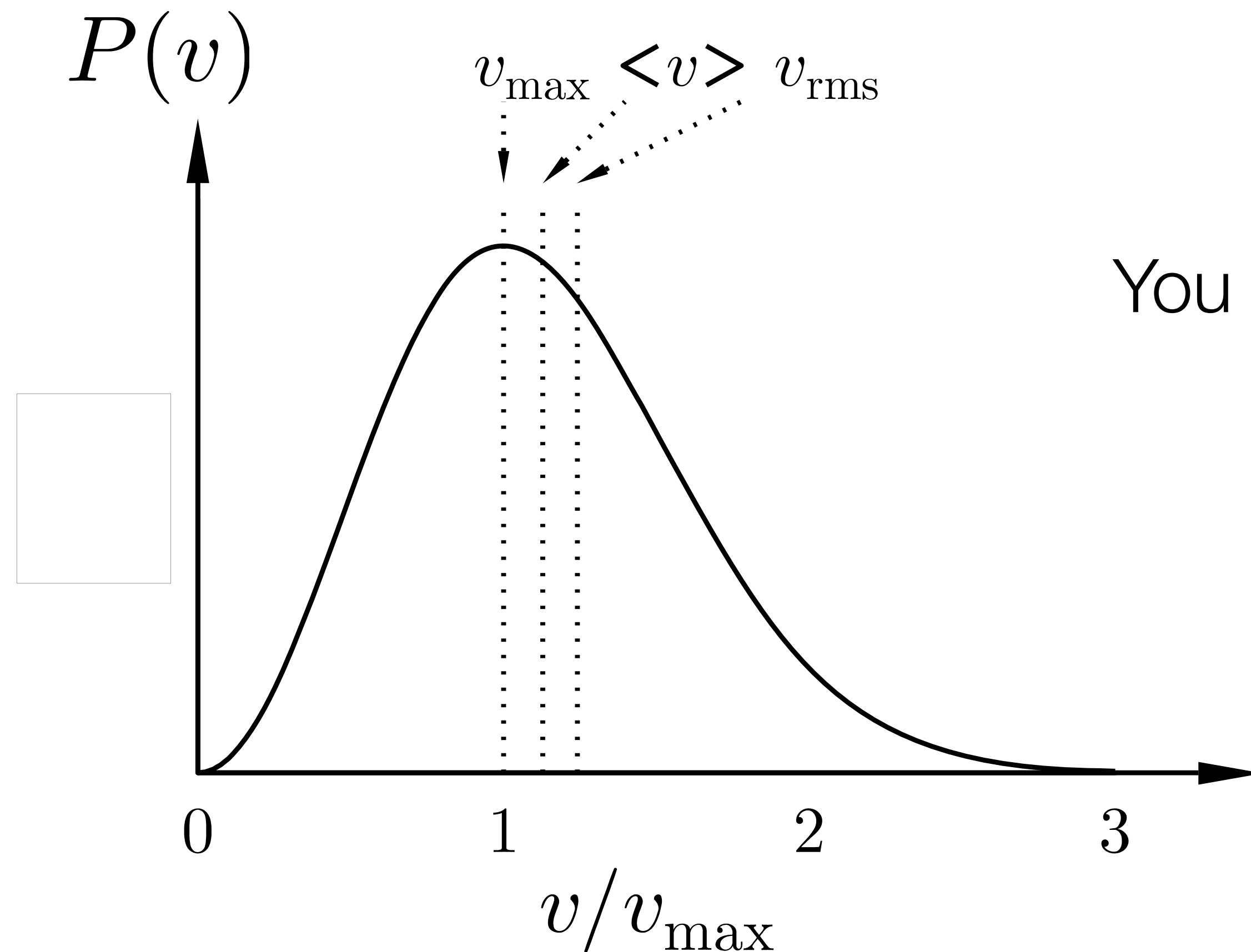


Fig. 5.3 Molecules with speeds between v and $v + dv$ occupy a volume of velocity space inside a spherical shell of radius v and thickness dv . (An octant of this sphere is shown cut-away.)

More things to compute — in homework :)



You can find v_{max} (the most probable speed)
by differentiation $dP(v)/dv = 0$