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7.1 The flux is  $\Phi = 1019 \text{ m}^{-2}/3600\text{s}$ . Assuming the residual gas is  $\text{N}_2$  and  $T = 300\text{K}$ , then  $p = p_0 \exp(-2 \text{ m}^2/\text{m}^2) = 10^{-7} \text{ Pa} = 10^{-9} \text{ mbar}$

7.2 The mean KE in the gas is  $3/2 k_B T$ , the mean KE in the beam is the same as the mean KE of those hitting the surface, i.e.  $2k_B T$  (see 2.1(b)), so in the box the temperature will settle to the new value  $T_{\text{new}}$  given by  $3/2 k_B T_{\text{new}} = 2k_B T$ ,

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