Photon Flux

How many photons or energy leave the box per area per second ?

Hot Oven

Temperature T
Volume V

Area A

photons escaping
from the box
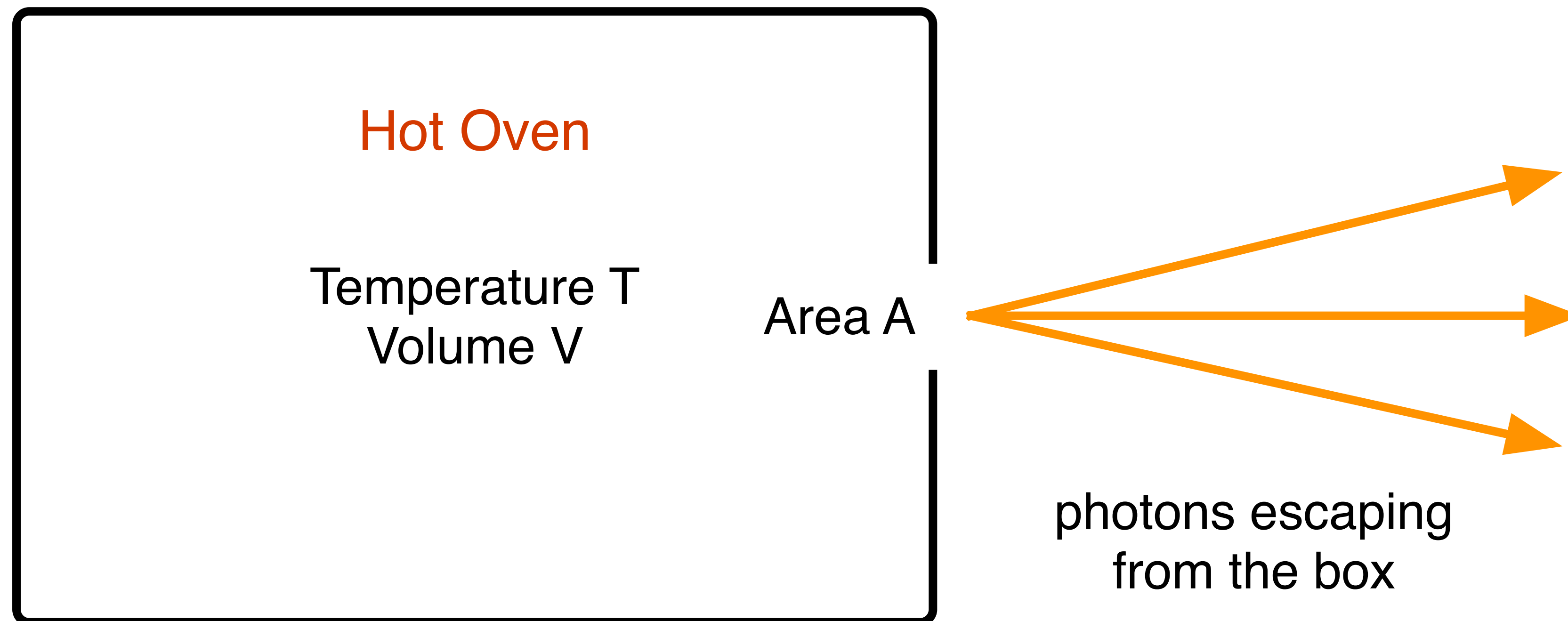
Single particle modes in a box

$\ell = 3$
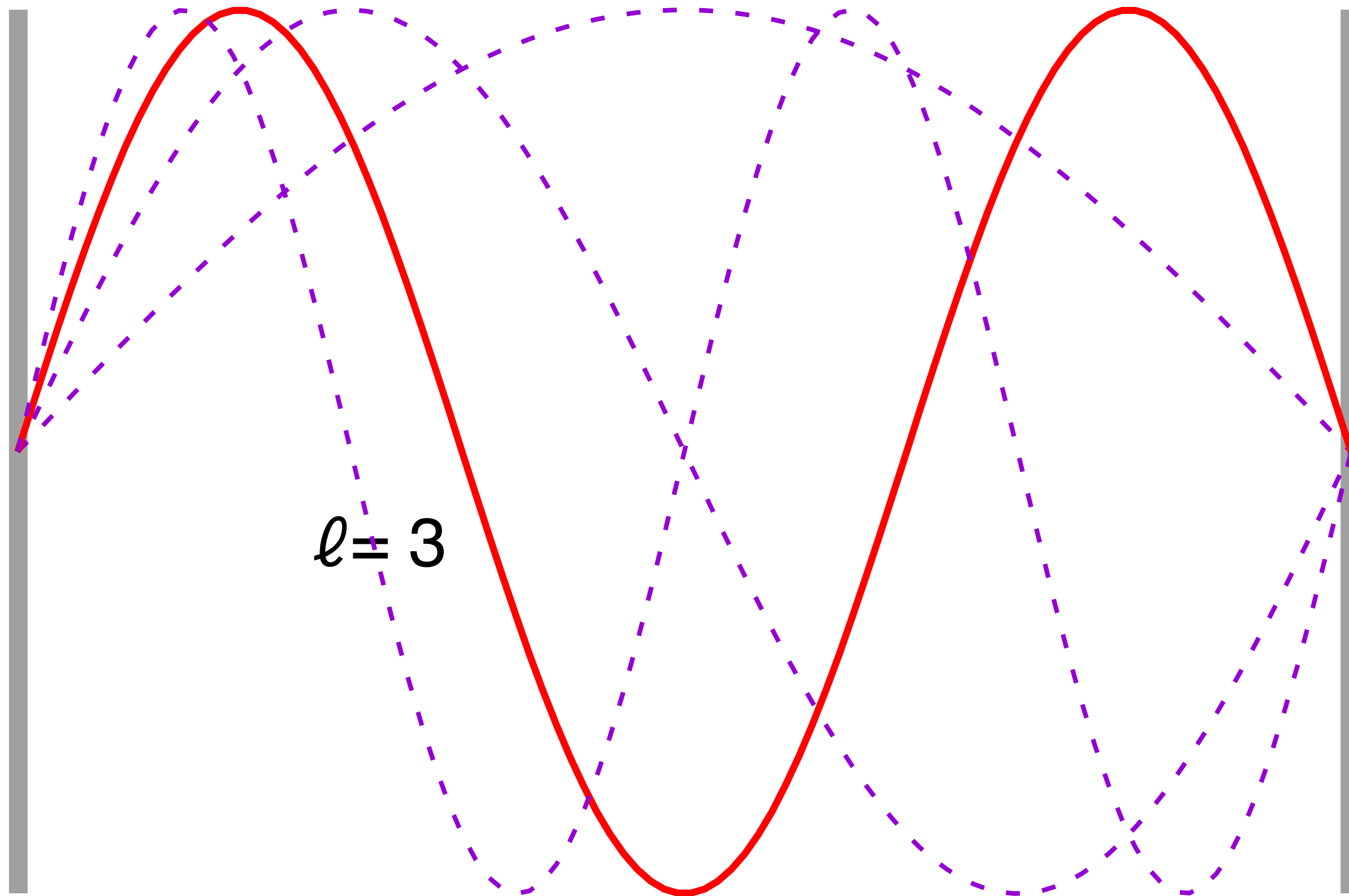
Each mode in the box is sharing the energy and particles with the other modes of the box