

photon exitance, M_p

specific photon emission

Photon flux, number basis, q_p , emitted by an element of the surface containing the source point under consideration divided by the area S of that element. SI unit is $\text{s}^{-1} \text{m}^{-2}$.

Note 1: Mathematical definition: dq_p/dS . If q_p is constant over the surface area considered, $M_p = q_p/S$.

Note 2: Formerly called photon emittance.

Note 3: This quantity can be expressed on a chemical amount basis by dividing M_p by the Avogadro constant. In this case the symbol is $M_{n,p}$, the name “photon exitance, amount basis”, SI unit is $\text{mol s}^{-1} \text{m}^{-2}$; common unit is einstein $\text{s}^{-1} \text{m}^{-2}$.

2007, 79, 394