x := 4

MATHCAD FILE for

$$\lambda_{i} := 0.18$$
  $z := 3.16$   $\sum_{mm} := e^{\frac{-z}{50} \cdot (m-1)} - e^{\frac{z}{50} \cdot (-m)}$ 

$$\Psi_{1,i} \coloneqq \frac{\lambda_i \cdot e^{-\alpha \cdot \Phi_1}}{1 + \lambda_i \cdot e^{-\alpha \cdot \Phi_1} \cdot \left(1 + e^{\Phi_1}\right) \cdot \frac{S_1}{z}} \qquad \Psi_{m,i} \coloneqq \frac{\lambda_i \cdot e^{-\alpha \cdot \Phi_m} \cdot \left[1 - \frac{1 + e^{\Phi_m}}{z} \cdot \sum_{j=1}^{m-1} \left(\Psi_{j,i} \cdot S_{m-j+1}\right)\right]}{1 + \lambda_i \cdot e^{-\alpha \cdot \Phi_m} \cdot \left(1 + e^{\Phi_m}\right) \cdot \frac{S_1}{z}}$$

$$p := 1 ... \frac{\Delta E}{dE}$$
  $E_p := (Es - p \cdot dE) + dE$ 

$$\Psi^{\text{base}}_{p,i} \coloneqq \Psi_{p:L-2:M-1,i} \qquad \Psi^{\text{b}}_{p,i} \coloneqq \Psi_{p:L-M,i} \qquad \Psi^{\text{f}}_{p,i} \coloneqq \Psi_{p:L,i} \qquad \Delta \Psi^{\text{swv}}_{p,i} \coloneqq \Psi^{\text{f}}_{p,i} - \Psi^{\text{b}}_{p,i} = \Psi^{\text{f}}_{p,i} - \Psi^{\text{f}}_{p,i} = \Psi^{\text{f}}_{p,i} - \Psi^{\text$$

$$\Psi dppf_{p,i} \coloneqq \Psi f_{p,i} - \Psi base_{p,i} \qquad \Psi dppb_{p,i} \coloneqq \Psi b_{p,i} - \Psi base_{p,i} \qquad \Delta \Psi dpp_{p,i} \coloneqq \Psi dppf_{p,i} - \Psi dppb_{p,i} \qquad \Delta \Psi_i \coloneqq \max \left( \Delta \Psi swv^{\langle i \rangle} \right)$$



