

$$\begin{aligned}
 & \text{Ap} := \left(\text{pneglim} * 1 / (1 + \exp((2 * ip - pmin) / pwidth)) \right. \\
 & \quad \left. + \text{pposlim} * (1 - 1 / (1 + \exp((2 * ip - pmin) / pwidth))) \right) / (2 * ip) ** 2 \\
 & \quad * (-2 * N ** (2 * nuan) * (1 * q) ** 2 / (3 * Pi ** 2)) ; \\
 & A_p := - \frac{\left(\frac{\text{pneglim}}{1 + e^{\frac{2 ip - pmin}{pwidth}}} + \text{pposlim} \left(1 - \frac{1}{1 + e^{\frac{2 ip - pmin}{pwidth}}} \right) \right) N^{2 nuan} t^2 q^2}{6 ip^2 \pi^2} \quad (1)
 \end{aligned}$$

$$\begin{aligned}
 & \text{cosarray}[nn, ip] := \cos((pi * 2 * ip * (nn)) / N) \\
 & \quad * A; \\
 & \cosarray_{nn, ip} := \cos\left(\frac{2 \pi ip nn}{N}\right) A \quad (2)
 \end{aligned}$$

$$\begin{aligned}
 & \text{rate} := (2 * ip) ** 2 / \text{tau_R}; \\
 & \text{rate} := \frac{4 ip^2}{\text{tau_R}} \quad (3)
 \end{aligned}$$

$$\begin{aligned}
 & \text{ewfac} := 1 - \exp(-t * \text{rate}) \\
 & \text{ewfac} := 1 - e^{-\frac{4 t ip^2}{\text{tau_R}}} \quad (4)
 \end{aligned}$$

$$\begin{aligned}
 & \text{DynamicBnm} := \text{sum}(\text{cosarray}[\text{abs}(nn - mm), ip] * \text{ewfac}, ip = 1..N/2); \\
 & \text{DynamicBnm} := \sum_{ip=1}^{\frac{N}{2}} \cosarray_{|-nn + mm|, ip} \left(1 - e^{-\frac{4 t ip^2}{\text{tau_R}}} \right) \quad (5)
 \end{aligned}$$

[ip=1..N/2 realisiert p=2..N, p gerade ! p=2*ip