

<p><b>True</b></p> $v^2 = \frac{N^2(k^2 + \ell^2) + f^2\left(m^2 + \frac{1}{4H^2}\right)}{(k^2 + \ell^2) + \left(m^2 + \frac{1}{4H^2}\right)}$ <p><math>m \equiv \pi n / z_{\Gamma}</math> for <math>n = 1, 2, 3, \dots</math></p>	<p><b>Z grid</b></p> $v^2 = \frac{N^2(\xi^2 k^2 + \eta^2 \ell^2) + f^2\left(m^2 + \frac{1}{4H^2}\right)}{(\xi^2 k^2 + \eta^2 \ell^2) + \left(m^2 + \frac{1}{4H^2}\right)} \quad 0 \leq [kd, \ell d] \leq \pi$ <p><math>\xi \equiv \sin\left(\frac{1}{2}kd\right) / \left(\frac{1}{2}kd\right)</math> and <math>\eta \equiv \sin\left(\frac{1}{2}\ell d\right) / \left(\frac{1}{2}\ell d\right)</math></p>
<p><b>C grid</b></p> $v^2 = \frac{N^2(\xi^2 k^2 + \eta^2 \ell^2) + \mu^2 f^2\left(m^2 + \frac{1}{4H^2}\right)}{(\xi^2 k^2 + \eta^2 \ell^2) + \left(m^2 + \frac{1}{4H^2}\right)}$ <p><math>\mu \equiv \cos\left(\frac{1}{2}kd\right) \cos\left(\frac{1}{2}\ell d\right) \quad 0 \leq [kd, \ell d] \leq \pi</math></p>	<p><b>D grid</b></p> $v^2 = \frac{\mu^2 N^2(\xi^2 k^2 + \eta^2 \ell^2) + \mu^2 f^2\left(m^2 + \frac{1}{4H^2}\right)}{\mu^2(\xi^2 k^2 + \eta^2 \ell^2) + \left(m^2 + \frac{1}{4H^2}\right)}$ <p><math>0 \leq [kd, \ell d] \leq \pi</math></p>
<p><b>CD grid (Scheme I)</b></p>	
$e^{2v_i \tau} \left( \mu^2 L^2 + \sigma_m^2 \right) \cos(2v_r \tau) - 2e^{v_i \tau} \left( \mu^2 \sigma_N L^2 + \sigma_f \sigma_m^2 \right) \cos(v_r \tau) + \left( \sigma_N^2 + \tau^2 N^2 \right) \mu^2 L^2 + \left( \sigma_f^2 + \tau^2 \mu^2 f^2 \right) \sigma_m^2 = 0$ <p><math>\sigma_N \equiv 1 - \frac{1}{2} \tau^2 N^2 \quad \sigma_f \equiv 1 - \frac{1}{2} \tau^2 f^2 \quad \sigma_m^2 \equiv m^2 + 1 / \left( 4H^2 \right)</math></p> <p><math>0 \leq [kd, \ell d] \leq \pi</math></p>	
<p><b>A grid</b></p> $v^2 = \frac{N^2(\tilde{\xi}^2 k^2 + \tilde{\eta}^2 \ell^2) + f^2\left(m^2 + \frac{1}{4H^2}\right)}{(\tilde{\xi}^2 k^2 + \tilde{\eta}^2 \ell^2) + \left(m^2 + \frac{1}{4H^2}\right)} \quad 0 \leq [kd, \ell d] \leq \pi$ <p><math>\tilde{\xi} \equiv \sin(kd) / (kd)</math> and <math>\tilde{\eta} \equiv \sin(\ell d) / (\ell d)</math></p>	<p><b>E grid</b></p> $v^2 = \frac{N^2(\xi^2 k^2 + \eta^2 \ell^2) + f^2\left(m^2 + \frac{1}{4H^2}\right)}{(\xi^2 k^2 + \eta^2 \ell^2) + \left(m^2 + \frac{1}{4H^2}\right)}$ <p><math>0 \leq [kd, \ell d] \leq 2\pi</math></p>
<p><b>B grid</b></p>	
$v^2 = \frac{N^2\left(\xi^2 k^2 + \eta^2 \ell^2 - \frac{1}{2} d^2 \xi^2 k^2 \eta^2 \ell^2\right) + f^2\left(m^2 + \frac{1}{4H^2}\right)}{\left(\xi^2 k^2 + \eta^2 \ell^2 - \frac{1}{2} d^2 \xi^2 k^2 \eta^2 \ell^2\right) + \left(m^2 + \frac{1}{4H^2}\right)} \quad 0 \leq [kd, \ell d] \leq \pi$	
<p><b>L grid</b></p> $v^2 = \frac{\mu_z^2 N^2(k^2 + \ell^2) + f^2\left(\zeta^2 m^2 + \mu_z^2 \frac{1}{4H^2}\right)}{(k^2 + \ell^2) + \left(\zeta^2 m^2 + \mu_z^2 \frac{1}{4H^2}\right)}$ <p><math>\zeta \equiv \sin\left(\frac{1}{2}m\delta z\right) / \left(\frac{1}{2}m\delta z\right) \quad \mu_z \equiv \cos\left(\frac{1}{2}m\delta z\right)</math></p>	<p><b>CP grid</b></p> $v^2 = \frac{N^2(k^2 + \ell^2) + f^2\left(\zeta^2 m^2 + \mu_z^2 \frac{1}{4H^2}\right)}{(k^2 + \ell^2) + \left(\zeta^2 m^2 + \mu_z^2 \frac{1}{4H^2}\right)}$ <p><math>0 \leq m\delta z = \pi n\delta z / z_{\Gamma} \leq \pi</math> for <math>n = 1, 2, 3, \dots</math></p>