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TOMORI: PLASMA DISPERSION
RELATION packages. Then the
dispersion relation for electrostatic
waves [Gurnett and Bhattacharjee,
2005] $D(\omega, k) = 1 - \sum_s \frac{X_s}{k^2 Z_s} = 0$
 $X_s = \frac{q_s^2 n_s}{\epsilon_0 m_s \omega^2}$
(9) can be expressed using the

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plasma dispersion function $Z(\xi)$
as $D(\omega, k) = X s^2 v^2 \frac{h s}{k^2} [1 + s Z(\xi s)]$, (10)

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NHDS (New Hampshire Dispersion
relation Solver) is a numerical tool
written in Fortran 90 and rst
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al.(2013) to solve this dispersion

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propagating parallel to the
magnetic \vec{B} field or general
oblique propagation of electrostatic
and

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```
k_array = 1e-5:1e-6:1e-2; % k  
values to solve for. w_array =  
zeros (length (k_array),1); 3  
solutions expected for each k. i =  
1; % loop counter. %%Loop over k.  
for k = k_array (1):k_array (end)
```

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Solver clear w. syms w. eqn =
 $c^2 * k^2 / w^2 + w e^2 /$
 $(w^2 - \Omega_{e}^2) \dots + w p^2 /$
 $(w^2 - \Omega_{p}^2) + (w c^2 / w^4) *$
 $(w^2 + k^2 * u c^2) \dots$

solve numerically a nonlinear
(plasma wave dispersion ...

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