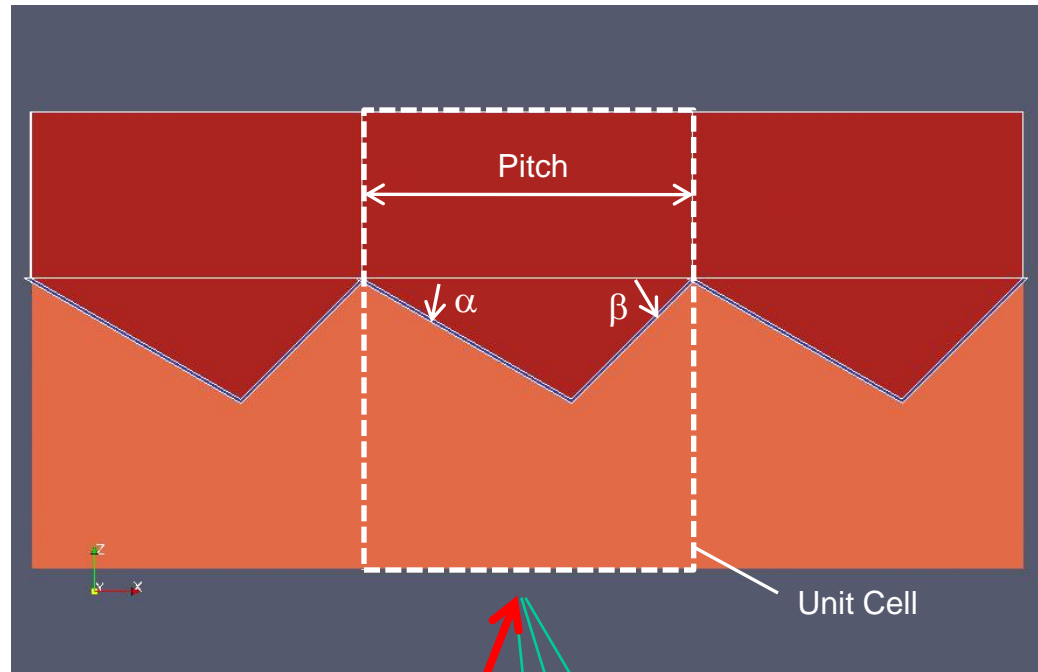


EM Explorer Simulation of Blazed Reflection Grating

Simulation Setup

- Only one unit cell needs to be simulated
 - Periodic in x direction, uniform in y direction
 - Pitch=2 μm , $\alpha=30^\circ$, $\beta=45^\circ$, Al coating=20nm
- Oblique planewave incidence:
 - $\lambda=0.65\mu\text{m}$
 - $\theta=15^\circ$
 - $\phi=20^\circ$
 - $E_s=1.0$
 - $E_p=0.5$



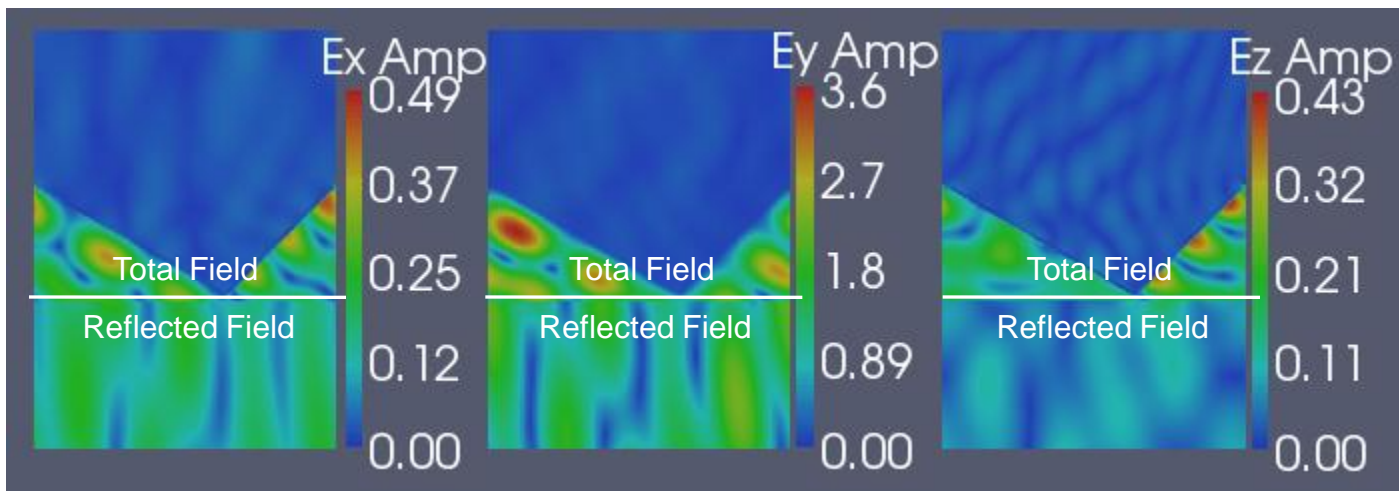
Near Fields Amplitude

Data Files:

ex_amp.vtk

ey_amp.vtk

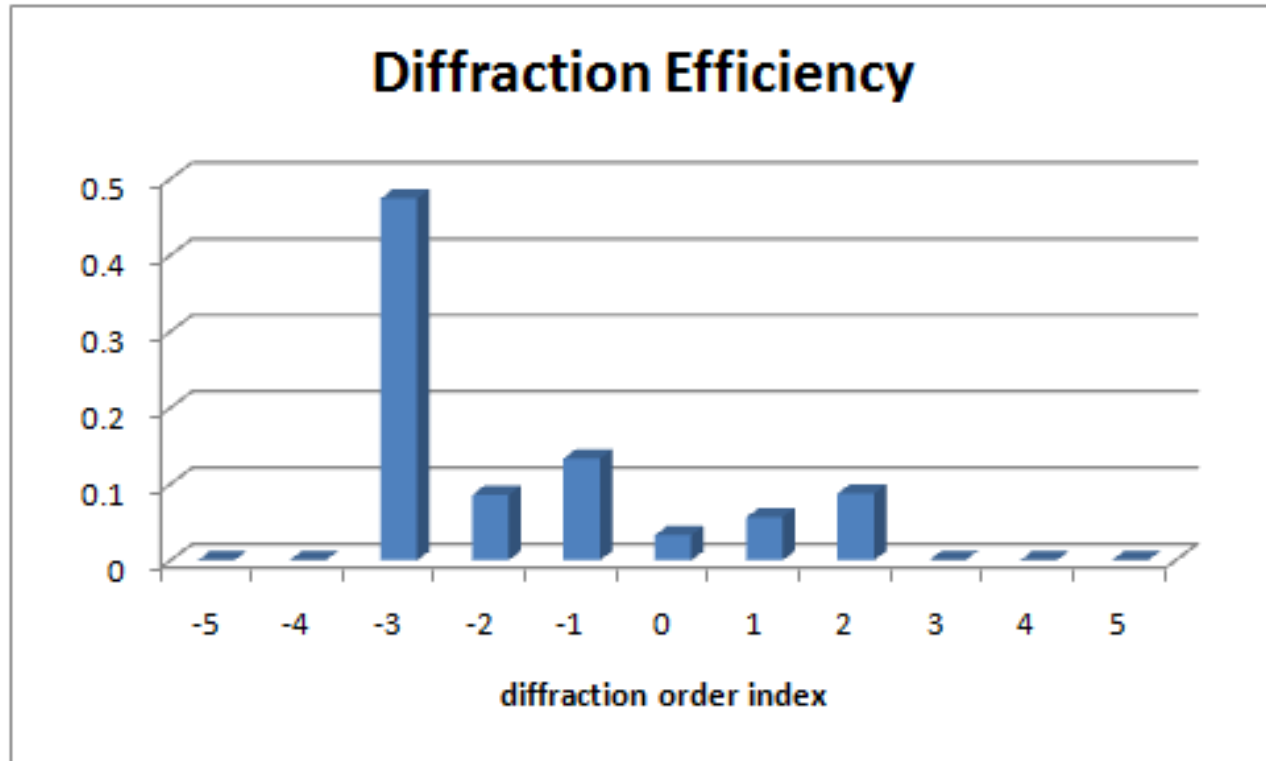
ez_amp.vtk



Data visualized using ParaView

Diffraction Efficiency

Data File: diffraction_efficiency.txt



Far Field Spectrum of Planewaves

Data File: diffraction_order.txt

