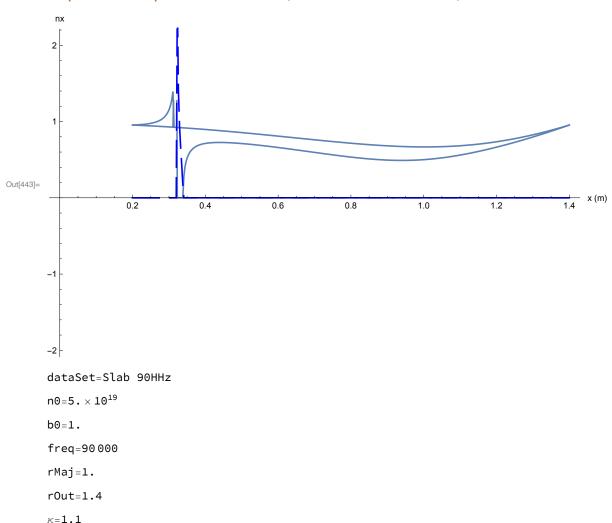
90GHz ECH with Parabolic/Solovev Profiles

Open Additional files:

Case 1

Plot Real and Imaginary parts of nx² from 4nd order cold plasma dispersion relation (Plus and Minus roots)

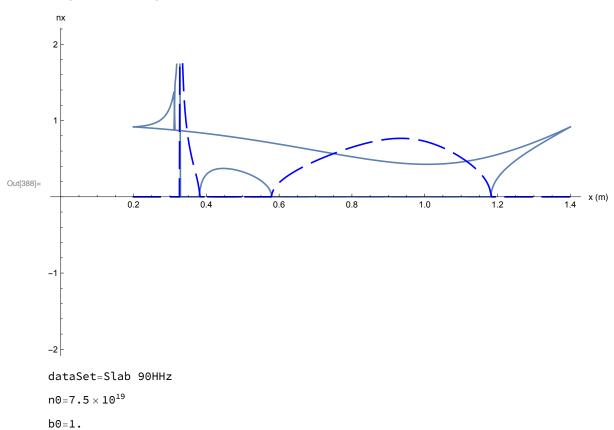


```
L0=0.00001
\alpha1=1.
\alpha2=1.
\alphaT1=1.
\alphaT2=2.
t0=1.
nz=0.3
etaList={0., 1., 0., 0., 0.}
xmin=0.2
xmax=1.4
nPerp2FS[x_]
```

Case 2

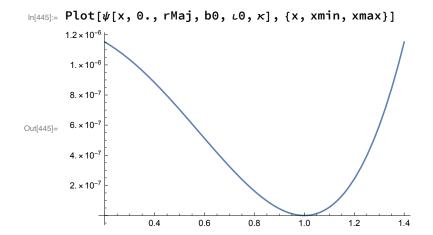
freq=90000

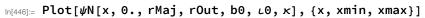
Plot Real and Imaginary parts of nx² from 4nd order cold plasma dispersion relation (Plus and Minus roots)

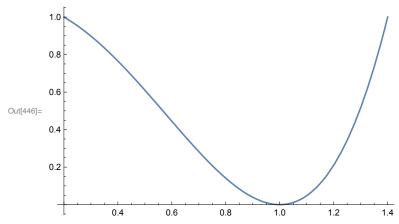


```
rMaj=1.
r0ut=1.4
\kappa = 1.1
L0=0.00001
\alpha1=1.
\alpha2=1.
\alphaT1=1.
\alphaT2=2.
t0=1.
nz=0.4
etaList={0., 1., 0., 0., 0.}
xmin=0.2
xmax=1.4
nPerp2FS[x_]
```

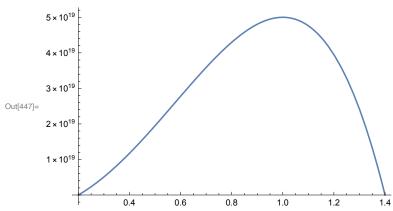
Plot Profiles







In[447]:= Plot[nprof[x], {x, xmin, xmax}]



In[448]:= Plot[bprof[x], {x, xmin, xmax}]

