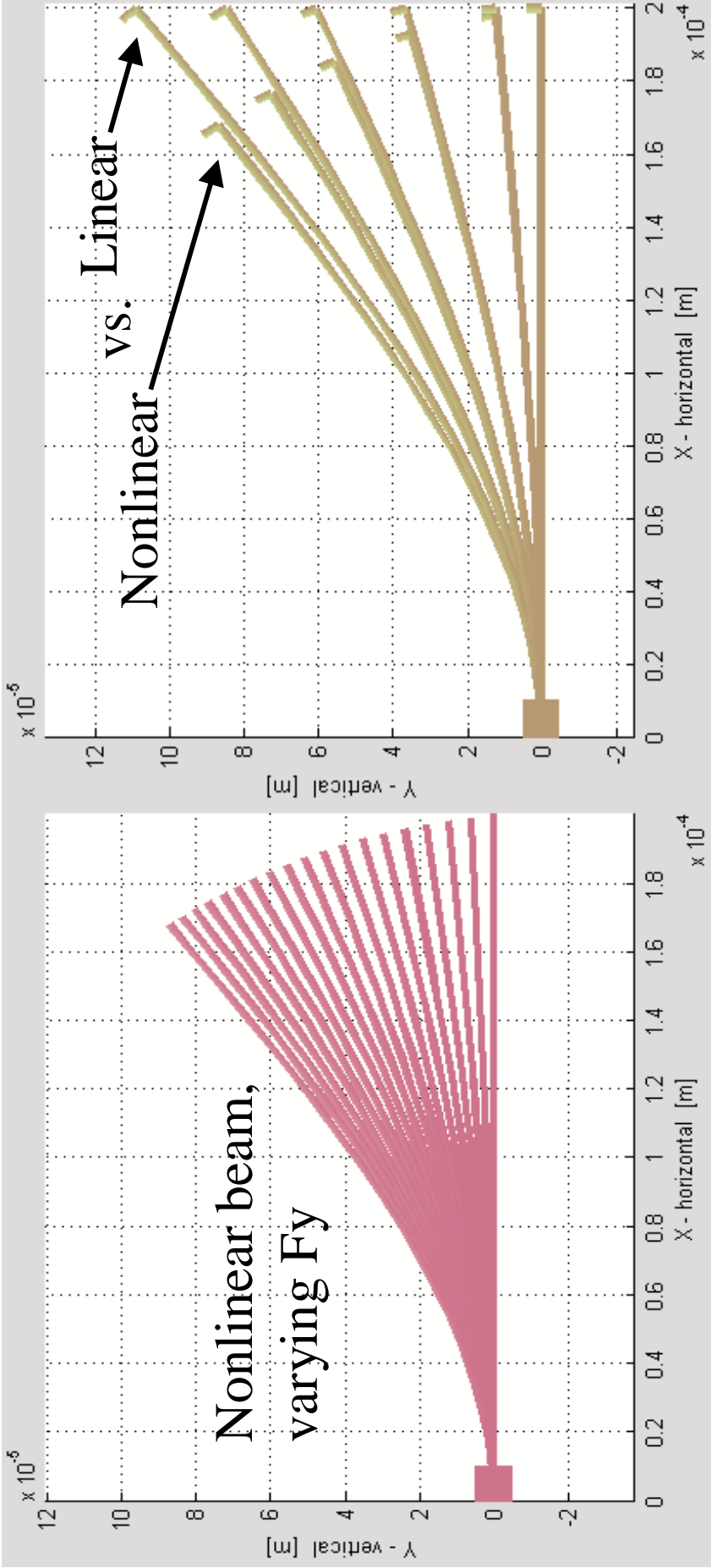


Initial results of Sugar's nonlinear beam model function



```
uses mumpsx.net
anchor p1 [A] [l=10u w=10u]
beam3dn11 p1 [A B] [l=200u w=2u h=2u oz=0] %Nonlinear beam
beam3d p1 [B b] [l=4u w=2u h=2u oz=90] %beam tip
beam3d p1 [A C] [l=200u w=2u h=2u oz=0] %Linear beam
beam3d p1 [C c] [l=4u w=2u h=2u oz=90] %beam tip

param f
f3d * [B] [F=f oz=90]
f3d * [C] [F=f oz=90]
```

Netlist (right Fig.):
sweeping $F_y=0:9\mu N$