

Set Linear Slab Parameters

Geometric Parameters

```
In[251]:= xProfileMin = -0.68;
xProfileMax = 0.68;
nXmin = 0.25 × 1020;
nXmax = 0.35 × 1020;
(*BXmin=1.9*1.67/(1.67+0.68);*)
BXmin = 1.9;
BXmax = 2.1;
(* N.B. For Linear slab model Te Xmin and Te Xmax are defined
   here. Tlist below gives the ratio of various Ti to Te *)
TXmin = 1.0;
TXmax = 1.0;
```

RF Parameters

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In[342]:= freq = 55990;
c = 3. × 108;
k0 =  $\frac{2 N[\pi] \text{freq} 10^6}{c}$ ;
nz = 0.1;
kz = nz * k0;
```

Plasma Parameters

In[378]:=

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etaList = Table[0., {i, 1, 5}];
etaList[[1]] = 1.; etaList[[2]] = 0.0; etaList[[3]] = 0.;
etaList[[4]] = 0.; etaList[[5]] = 0.;

(* N.B. For Linear slab model Te Xmin and Te Xmax are defined above. TList here
   gives the ratio of various Ti to Te (i.e. TList[[1]] = 1.0 always) *)
TList = Table[0., {i, 1, 6}];
TList[[1]] = 1.0; TList[[2]] = 1.0;
TList[[3]] = 0.; TList[[4]] = 0.;
TList[[5]] = 0.; TList[[6]] = 0.;

modellList = Table[0, {i, 1, 6}];
modellList[[1]] = 2; modellList[[2]] = 2;
modellList[[3]] = 0; modellList[[4]] = 0;
modellList[[5]] = 0; modellList[[6]] = 0;

nminList = Table[0., {i, 1, 6}];
nminList[[1]] = -1; nminList[[2]] = -1;
nminList[[3]] = -2; nminList[[4]] = -2;
nminList[[5]] = -2; nminList[[6]] = -2;

nmaxList = Table[0., {i, 1, 6}];
nmaxList[[1]] = 1; nmaxList[[2]] = 1;
nmaxList[[3]] = 2; nmaxList[[4]] = 2;
nmaxList[[5]] = 2;
nmaxList[[6]] = 2;

```

Plot Parameters

In[235]:=

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dataSet = "DIII-D slab";
xmin = xProfileMin;
xmax = xProfileMax;
nPoints = 101;

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