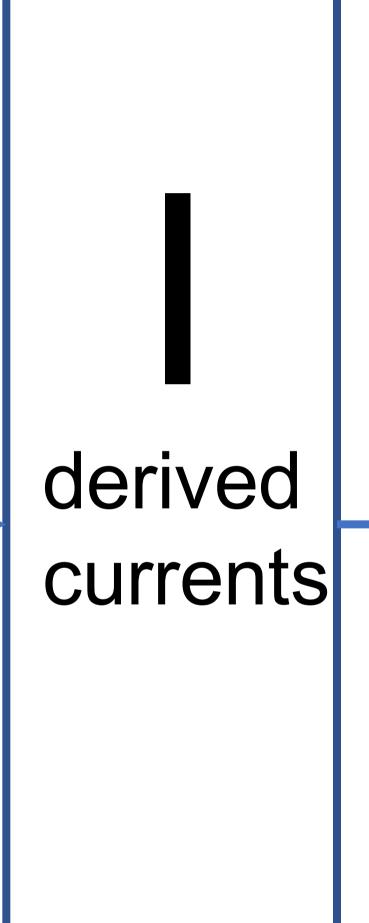# STEP 1:

Synthetic Data

Probe parameters:
- Probe Geometries
- Vb

Ionospheric plasma parameters:
- ne $[4^{10} - 3^{11} \ m^{-3}]$
- Te [300 – 2800 K]
- V0s [-2 – 0 V]

Langmuir Library:

Finite length model
Finite radius model

I

derived currents

I & Te

70% Training

10% Validation

20% Test