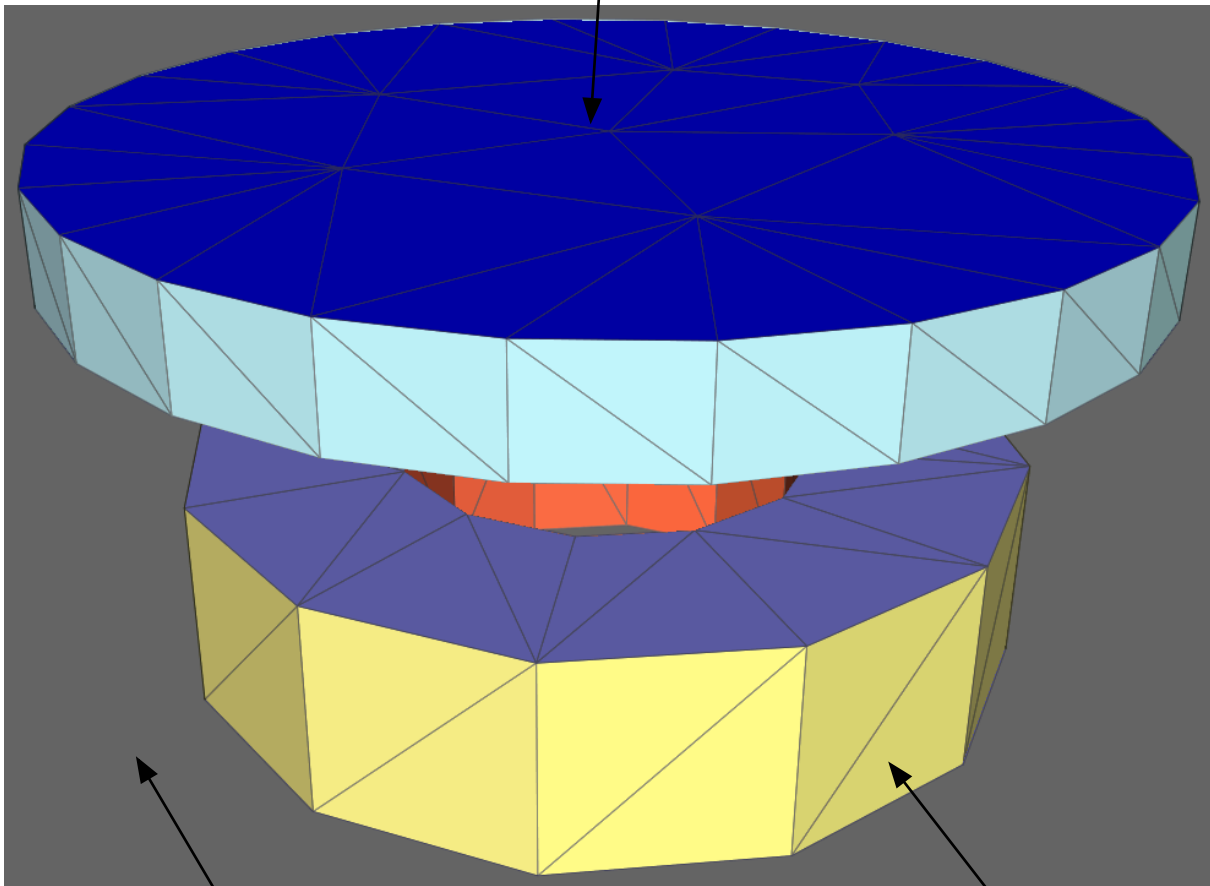


Pan, conductor:
 $\mu = 1, \sigma = 1, \mathcal{J}_G = 0$



Air (infinite domain), insulator:
 $\mu = 1, \sigma = 0, \mathcal{J}_G = 0$

Coil, modelled as insulator:
 $\mu = 1, \sigma = 0, \mathcal{J}_G \neq 0$