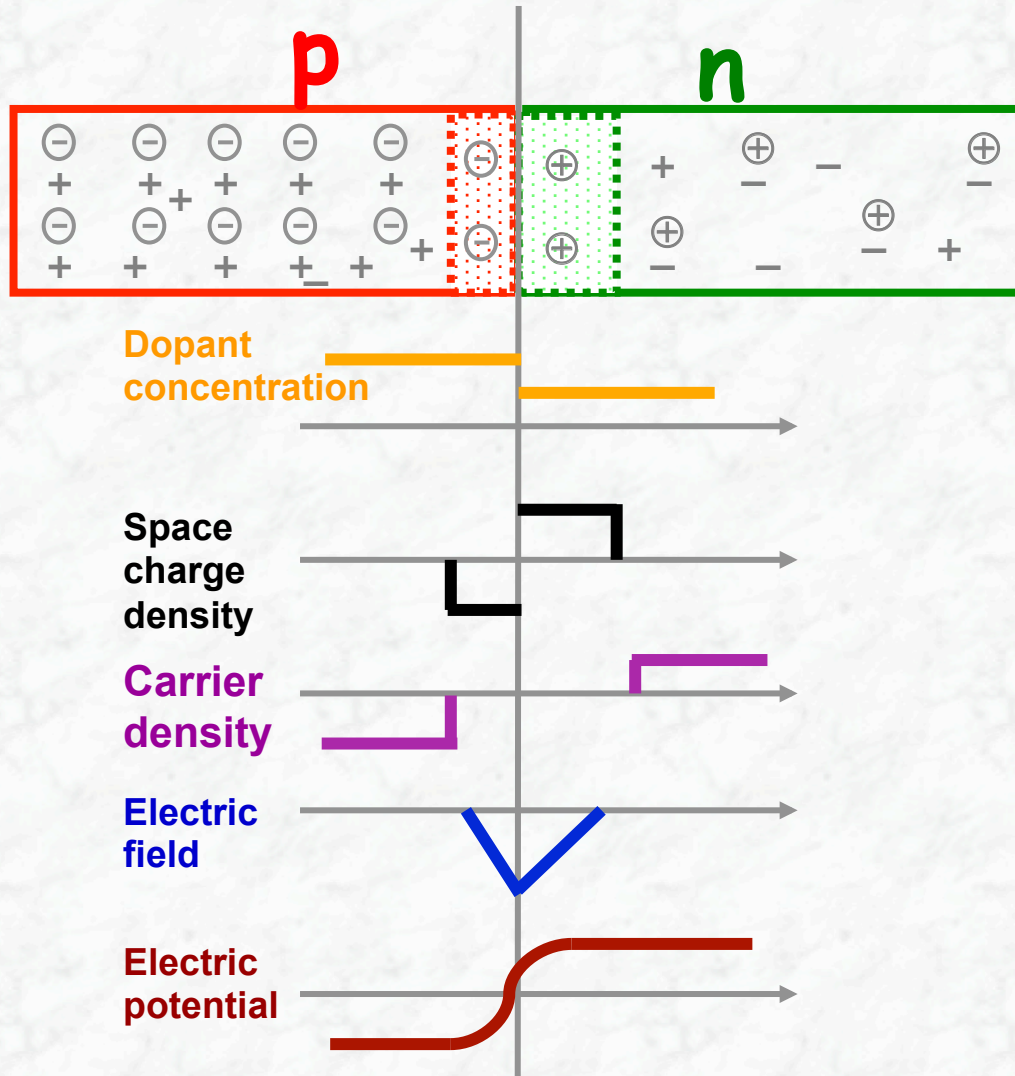


p-n-Junction



- Diffusion of e^- from n-side and h^+ from p-side
- Recombination on other side, free charges disappear around junction (“depletion”)
- Neutral p- or n-Si becomes charged \rightarrow E-Field
- External field can increase or decrease depletion zone
- Depletion is what we want for detectors!