

This procedure describes the additional steps needed to do Z contrast imaging using the S-4800 SEM upper detector ExB filter. Figures are from “Lets familiarize ourselves with the SEM”.

1. Select upper detector
2. Select +BSE, set LA to 0
3. Do basic alignment
4. Increase LA in increments of 1, watching image brightness. When image brightness stops decreasing, stop increasing LA. This filters out the SE signal (fig 13), using the upper detector ExB filter (figure 8).
5. Increase I_e if needed for better signal to noise ratio
6. Fine tune the alignment

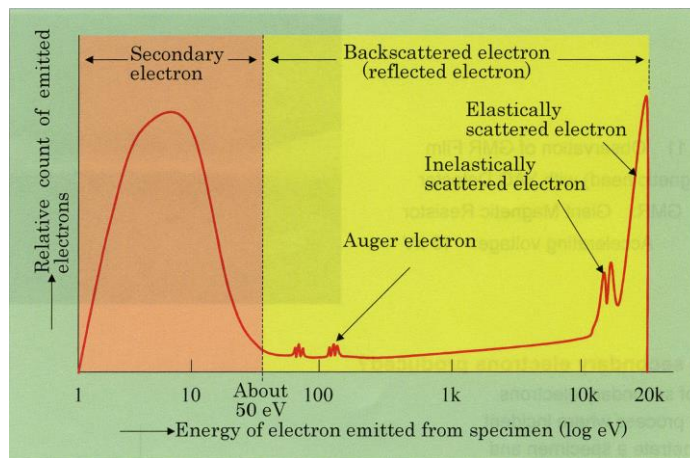


Fig 13, pg 45

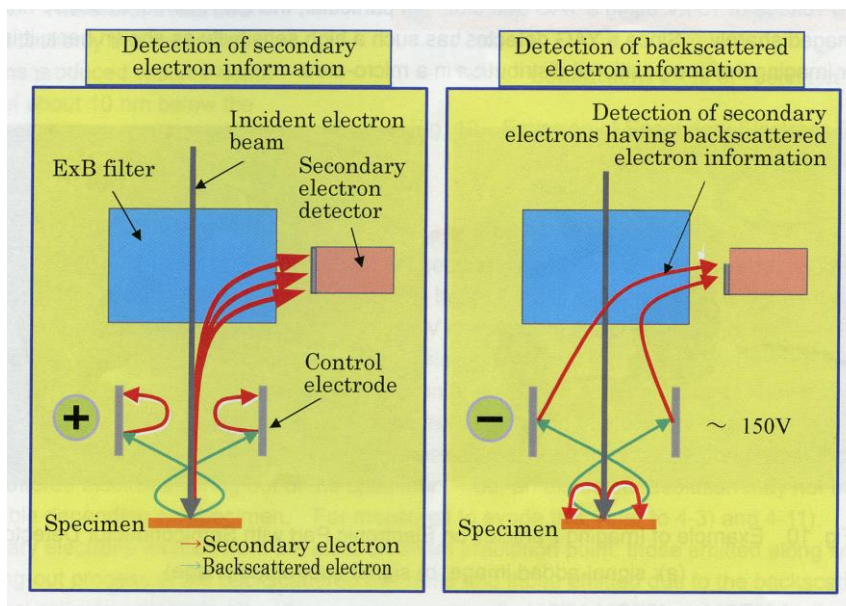


Fig 8, pg 42