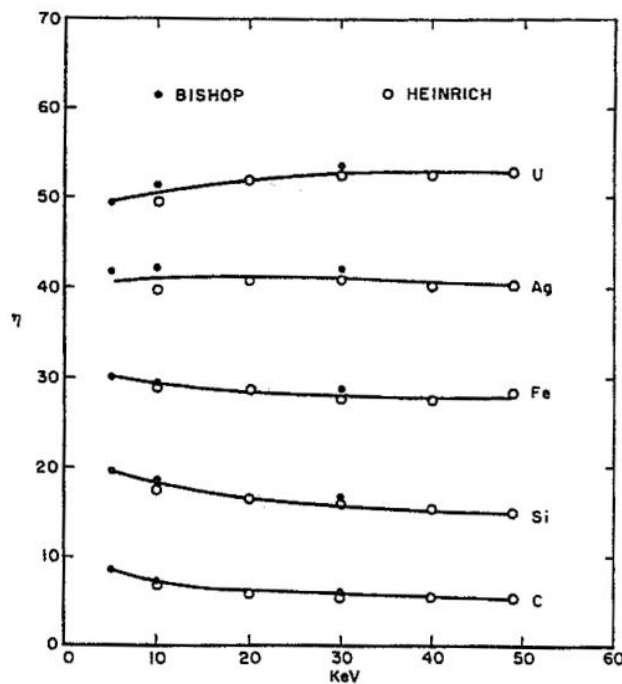# Beam Energy dependence of BSE

BSE coefficient does not depend strongly on beam energy.

$$\eta = \frac{n_{BSE}}{n_{PE}} = \frac{i_{BSE}}{i_{PE}}$$

as increasing beam energy (E_0), both n_{BSE} (number of backs-cattered electrons) and n_{PE} (the number of primary electrons) are increasing, resulted BSE coefficient η not changed so much.

BSE coefficient η as function of the primary beam energy