Si $K-\alpha$ peak intensity as a function of electron beam voltage at 100 nA-sec 700000 5 kV -Si 7 kV -600000 10 kV -15 kV -20 kV -----500000 30 kV -400000 Intensity 300000 200000 100000 0 1500 1600 1700 1800 1900 2000 Energy [eV]