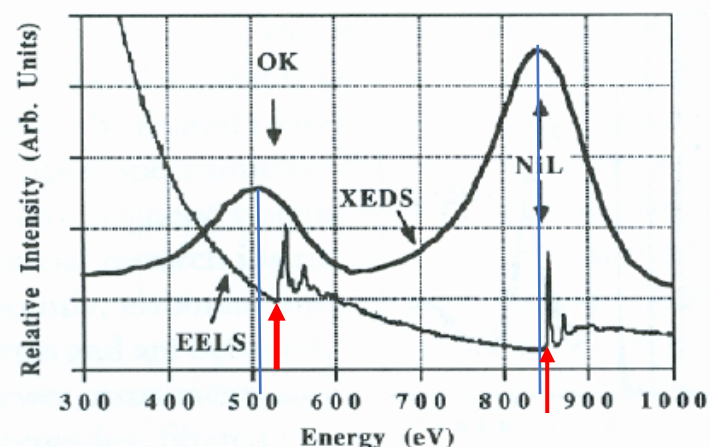


NAME _____

Dr. Garofalini

Below are the spectra from EDS and EELS of binding energies of a sample with O and Ni in it. OK on figure is the O K shell binding energy. Why do the O signals differ in location of the peak max O for EDS and the edge (red arrow) for EELS; why are they more similar for Ni? Provide justification with specific numbers. Use the table below to help answer this. (Note, XEDS means X-ray induced EDS.)

	K	L1	L2	L3	M1	M2	M3	M4	M5	K α (eV)	K β (eV)	L α (eV)
O	532	24	7	7						525		
Ni	8333	1008	872	855	112	68	68	4	4	7478	8265	851



EELS vs EDS