

The two "bumps" appearing in the 17-keV spectrum seem to originate from the Cu K lines, excited by higher-order residual harmonics transmitted by the monochromator and reflected by the Si(444) reflection in the analyzer.

Thus, while our results seem to place $\sim 3\%$ (relative to the K diagram lines) on the CHS intensity at an incident energy of 17 keV, and thus rule out the results of Salem et al. [1], a useable CHS spectrum was not obtained.

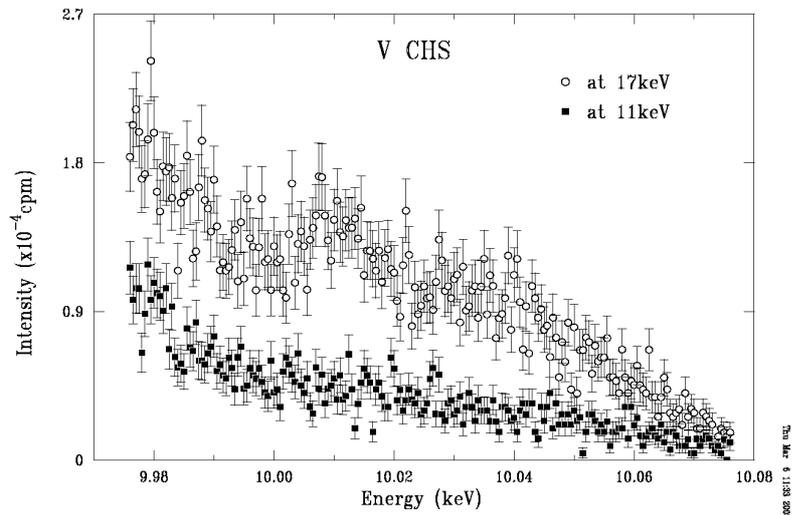


Fig. 1 : Emission spectrum measured for Vanadium, for the two excitation energies listed.

With the experience gained in this experiment, in particularly on the various components comprising the background, we believe that we will be able to optimize the experimental setup and measuring procedures to a level allowing the measurements of the elusive CHS spectra with satisfactory statistics.

- [1] T.K. Mukherjee and P.K. Mukherjee, *Z. Phys. D* **42**, 29 (1997) ; T. Aberg, K. A. Jamison and P. Richard, *Phys. Rev. Lett.* **37**, 63 (1976).
 [2] S.I. Salem et al., *Phys. Rev. A* **29**, 2634 (1984) ; S.I. Salem, et al., *Phys. Rev. Lett.* **49**, 1240 (1982).