

SOME REMARKS ON W2 LINE CONSTRUCTION DERIVED FROM THE EXPERIMENTS ON BIOMATERIALS IN *LURE* AND *HASYLAB*

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W2 line (X-Ray Microscopy / Microtomography) in National Light Source should be precisely designed. It results from our experience with lines D15 at LURE, L and MAXIM at HASYLAB, 1B2 White/Microprobe Beamline of Pohang Light Source that such line, planned for the microanalysis of composite materials demands combining the following facilities in one device: X-ray fluorescence in reflection mode; X-ray diffraction in transmission mode; micro-EXAFS and XANES + small angle scattering. The coupling with the real time and place observation by the optical microscope with image

processing program is obligatory. The coupling with the tabletop Raman system would be of utmost significance. Such line would allow making the near total analytical and structural studies on the samples. The examples of analyses, where the parallel determination of the elemental composition, organic components and crystallographic structure was essential were cited. Also, other examples where the micromechanical (hardness, friction) or surface (roughness) features were added to the above mentioned characteristics.