PHOENIX: A new soft X-Ray micro-spectroscopy beamline for geo- and environmental sciences at the Swiss Light Source

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A new soft X-Ray micro-spectroscopy beamline is being developed and build at the Swiss Light Source. This new beamline will go to operation in early 2010. Photons, originating from an undulator source, can be set in a range from 400 eV to 8000 eV. The energy range allows studying most elements found in nature (K-edges from Oxygen to Cobalt, including the M-edges, elements as heavy as Uranium can be studied). The techniques available at the beamline include spectroscopy in absorption, fluorescence and electron yield mode. The focus size will be about 2 micrometer. As the end station of the beamline is build in a highly flexible way, user cells for in situ experiments can be easily accomodated.