Status of the the 2.5 GeV Light Source ANKA, G. BUTH, S. DOYLE, D. EINFELD, J. GOETTERT, M. HAGELSTEIN, A. HAGESTEDT, S. HERMLE, E. HUTTEL, A. KRUESSEL, M. LANGE, Y.-L. MATHIS, W. MEXNER, H.O. MOSER, E. PELLEGRIN, U. RISTAU, R. ROSSMANITH, J. SCHAPER, H. SCHIELER, R. SIMON, G. SPANNAGEL, R. STEININGER, S. VOIGT, R. WALTHER, Forschungszentrum Karlsruhe (FZK), ANKA Projekt Group, Germany; F. PEREZ, M. PONT, Forschungszentrum Karlsruhe, ANKA Project Group, Germany*; M. PLESKO, J. STEFAN INST., Ljubljana, Slovenia - ANKA is a 2.5 GeV synchrotron light source under construction at the Forschungszentrum Karlsruhe, Germany (circumference 110 m, variable emittance with minimum value of 40 nm, 8 DBA structures). Central part of its mission is to provide industry with services including micro-fabrication, analytical applications and non-destructive testing (3 beamlines for LIGA, 6 for X-ray analytical methods, one for XUV spectromicroscopy and one for infrared spectroscopy and microscopy). Four 6 m long and one out of four 2.2 m long straight sections can be equipped later with insertion devices. Prototypes of the magnets and the vacuum chambers will be delivered spring 1998. 4 ELETTRA cavities have been ordered and will be driven by two 250 kW klystrons for obtaining a current of 400 mA. The injector consisting of a 50 MeV microtron and a 500 MeV synchrotron is under construction. The novel control system of the accelerator will be based on LONWORKS (fieldbus), TACO under WindowsNT and JAVA. Bids for 11 complete beamlines are due at end of January 1998 and the contract will be awarded spring 1998. Construction of the building began January 1998 and will be finished October 1998. Commissioning of ANKA will start in fall 1999.

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