

Ultra-Low Vertical Beam Size Measurements at SLS

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The achievement and control of ultra-low vertical emittances is of large interest for present and future storage ring based light sources in order to use small period/gap undulators allowing for higher photon energies. At the SLS a program was launched towards the minimization of the vertical equilibrium emittance and towards the development of improved instrumentation to measure it. In this context, a high resolution beam size monitor, where images are formed from vertically polarized visible/UV SR, has been installed at beamline X08DA. In this talk an overview of the beam size instrumentation at SLS is given, with a special insight on the design and the results from the recently built imaging monitor.