

Lifetime Issues for Third Generation Light Sources, A. ROPERT, ESRF - Achieving a long lifetime is a key issue for all new synchrotron light sources. Low horizontal emittance and small coupling limit the lifetime, even in a high energy storage ring like the ESRF, due to Touschek scattering. Instead of compromising on beam brightness by bunch density manipulations, the strategy of new projects to combat Touschek-induced lifetime limitations is to increase the momentum acceptance. Problems related to lattice optimization, hardware constraints, experimental confirmation of predicted performances as experienced at the ESRF, will be addressed.