

Smith Purcell Modified Scanning Electron Microscope

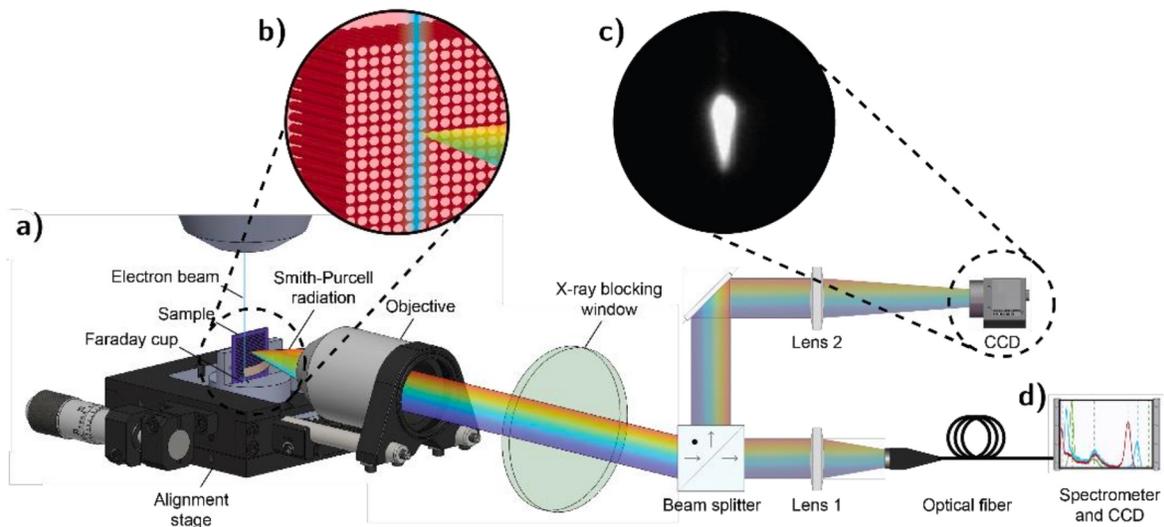


Figure 1 **SEM-based experimental setup to observe Smith-Purcell radiation.** (a) and (b) Inside the SEM vacuum chamber, the sample of (b) Silicon Nanowires is held so that its surface is almost parallel to the path of the electron beam. The emitted light is collected by a microscope objective, passed through a window and directed to a beam splitter (BS) that splits the optical beam to (c) a CCD camera which is used to image the surface of the sample and (d) an optical fiber that leads to a spectrometer.