The primary beam collimation at HRPT is handled by two rotating drums (cex1 and cex2), each equipped with three selectable collimator slots. Note: Motor names differ between SICS and NICOS systems. Motor name mapping from .dic files: hrpt.dic: /entry1,NXentry/\$(inst),NXinstrument/Kollimator1,NXKollimator/SDS ccex1 = kollimator1 ccex2 = /entry1,NXentry/\$(inst),NXinstrument/Kollimator1,NXKollimator/SDS kollimator2 Motor name mapping from hrpt.tcl: hfactory \$path/drum1 link cex1 hfactory \$path/drum2 link cex2 Reference: https://www.psi.ch/en/sinq/hrpt/specifications CEX2 (Collimation Modes): Mode: HI (High Intensity) cex2 = -104.4Collimator: Open Size: 55 mm x 150 mm (approx. 40') Mode: HR (High Resolution) cex2 = 16.57Collimator: 6' Soller Mode: MR (Medium Resolution) cex2 = 71.86Collimator: 12' Soller CEX1 (Collimation Modes): 46.5 => Open (no collimator), 58 mm x 150 mm

154.0 => Open (no collimator), 44 mm \times 150 mm 312.0 => 24' Soller collimator (rarely used)

Note:

- The 24' collimator at cex1 (312.0) is not commonly used. Most of the time, cex1 is set to the open position (46.5).
- Motor values may drift or reset over time due to electronics issues. Recently, efforts have been made to restore consistent values when needed.