

The detail structure of the undulator beamline can be summarized in the following:

Initial Drift:

Drift (0.26499 m)

US01:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US02:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US03:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.65305 m)

US04:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US05:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US06:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.65305 m)

US07:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US08:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

The first Chicane:

Drift (0.093709 m) + 1st Chicane (3.4 m) + Drift (0.069089 m) + Quad (0.039m) + Orbit Corrector (Infinite short) + Quad (0.039m) + Drift (0.6574 m)

US10:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m) ---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US11:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m) ---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US12:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m) ---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.65305 m)

US13:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m) ---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US14:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m) ---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US15:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m) ---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.65305 m)

The second chicane:

Drift (0.09371 m) + 2nd Chicane (3.4 m) + Drift (0.06889 m) + Quad (0.039m) + Orbit Corrector (Infinite short) + Quad (0.039m) + Drift (0.2294 m)

US17:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m) ---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US18:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.65305 m)

US19:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US20:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US21:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.65305 m)

US22:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US23:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.2249 m)

US24:

Drift (0.12871 m) ---- Undulator (3.3 m) ---- Drift (0.10389 m) ---- Quad (0.039m)
---- Orbit Corrector (Infinite short) ---- Quad (0.039m) ---- Drift (0.65305 m)