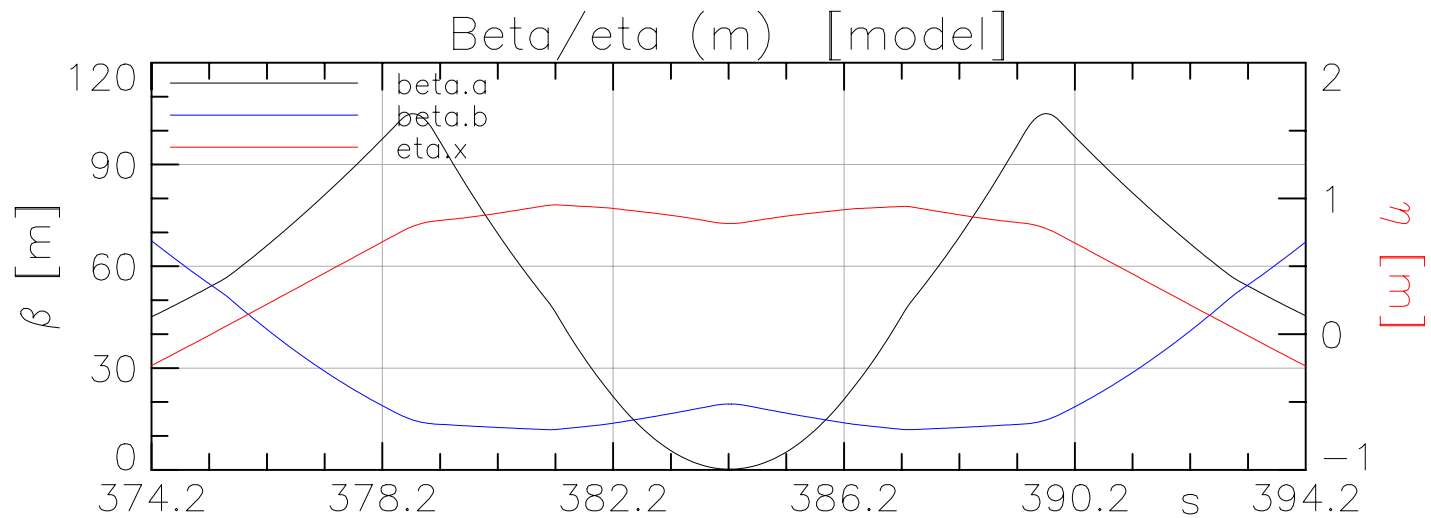
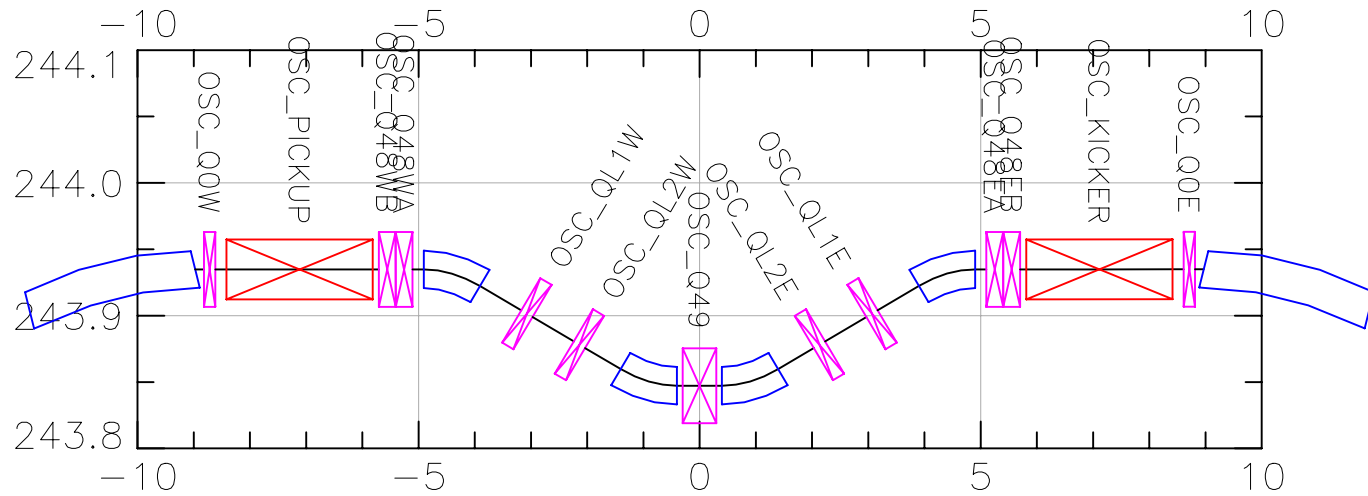
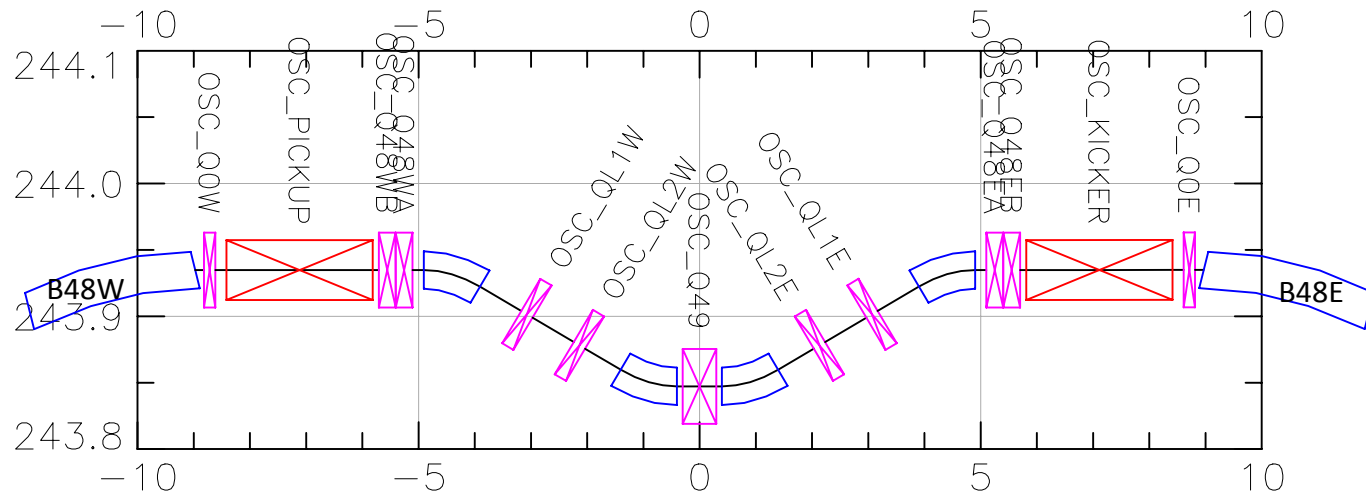


Bypass - layout

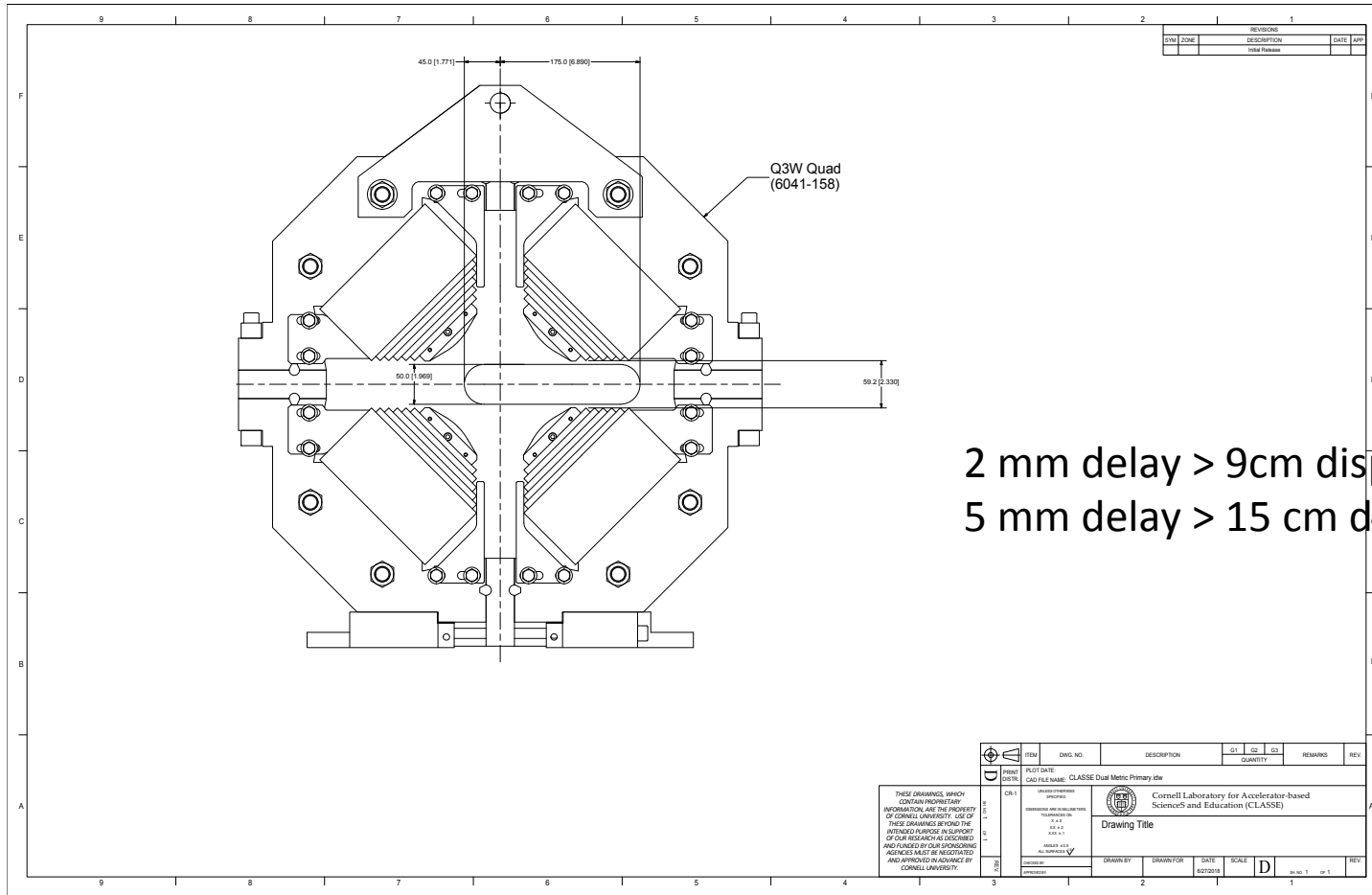
D.Rubin

July 18, 2018





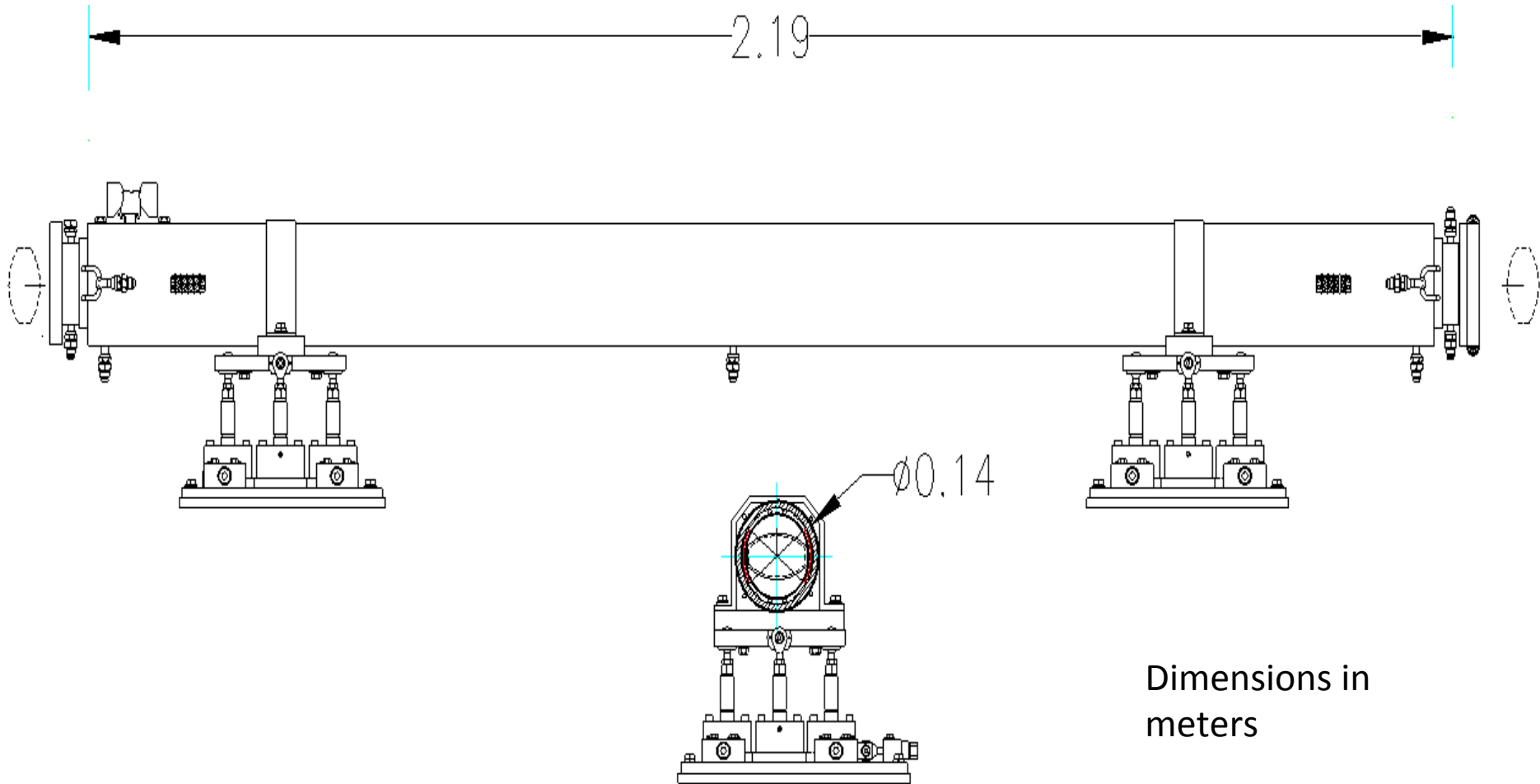
1. Q48 (60cm, large aperture) => MKII (Q7)
2. Q49 (95cm, large aperture) => Q03W – mounted on movable table
3. Q0(E/W) – normal CESR aperture (20cm)
 - $Q0[k1] = -0.1614$
4. Q1, Q2 (E/W) – aperture to accommodate flared chamber (20cm)
 - $Q1[k1] = 0.4886$
 - $Q2[k1] = 0.1344$
5. 4 – 1m dipoles
 - 2 mm delay => $R = 40\text{m}$ [840 G], offset = 9cm
 - 5 mm delay => $R = 30\text{m}$ [1120 G], offset = 15cm
6. 2 undulators – 2.6m, 1.4 kG



2 mm delay > 9cm displacement
 5 mm delay > 15 cm displacement

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	PLOT DATE 02/20/18	QAD FILE NAME CLASSE Dual Metric Primary Idr	Cornell Laboratory for Accelerator-based Science and Education (CLASSE)	Drawing Title			
DRAWN BY 6041-158	DRAWN FOR 6041-158	DATE 02/20/18	SCALE D	SHEET NO. 1	OF NO. 1	REV. 0	0

HELICAL UNDULATOR



Dimensions in
meters

