Request: A complete list of the datasets and beam conditions.

Notes:

All data is in my drop box at SLAC (can we transfer it to Oxford?)

This is almost in chronological order of when data was taken.

Positive y is up. Positive x is left facing downstream (that is, B and D are on the positive side of the beampipe).

Currents are approximate- I can get current data for each run if you request it.

Just looking

Current: 2e10.
Attenuation on channel 1 (A) = 18dB
Attenuation on channel 2 (B) = 18dB
Attenuation on channel 3 (C) = 16dB
Attenuation on channel 4 (D) = 16dB
Trajectory: Centred

4_striplines_07-Jul-2006.mat

Current: 2e10.
Attenuation on channel 1 (A) = 0dB
Attenuation on channel 2 (B) = 0dB
Attenuation on channel 3 (C) = 0dB
Attenuation on channel 4 (D) = 0dB
Trajectory: Centred
Run noted as “rubbish, current jumping too much”.

4_striplines_1e8_10-Jul-2006.mat

Current monitor calibrations

Channel 1: antenna 3EMI2
Channel 2: antenna 3EMI1
Channel 3: stripline C
Channel 4: stripline D

EMI_1e8_10-Jul-2006.mat
EMI_1_10-Jul-2006.mat
EMI_2_10-Jul-2006.mat
EMI_3_10-Jul-2006.mat
EMI_4_10-Jul-2006.mat
EMI_5_10-Jul-2006.mat
EMI_6_10-Jul-2006.mat (bad)
EMI_7_10-Jul-2006.mat

EMI_8_10-Jul-2006.mat
EMI_calib_1_11-Jul-2006.mat
EMI_calib_2_11-Jul-2006.mat
EMI_calib_3_11-Jul-2006.mat
EMI_calib_4_11-Jul-2006.mat
EMI_calib_5_11-Jul-2006.mat
EMI_calib_postbreak_1_11-Jul-2006.mat
EMI_calib_postbreak_2_11-Jul-2006.mat

Hybrid Calibrations

Current: 2e10.
Attenuation on channel 3 (D-C) = 12dB
Attenuation on channel 4 (B-A) = 10dB

calibzero_13-Jul-2006.mat
calibzero2_13-Jul-2006.mat
calib_x_1250_y_-1250_13-Jul-2006.mat
calib_x_1250_y_-1750_13-Jul-2006.mat
calib_x_1250_y_-250_13-Jul-2006.mat
calib_x_1250_y_-750_13-Jul-2006.mat (zero again)
calib_x_1250_y_-750_2_13-Jul-2006.mat (zero again)
calib_x_1250_y_250_13-Jul-2006.mat
calib_x_1750_y_-750_13-Jul-2006.mat
calib_x_2250_y_-750_13-Jul-2006.mat
calib_x_2250_y_-750_2_13-Jul-2006.mat
calib_x_250_y_-750_13-Jul-2006.mat
calib_x_750_y_-750_2_13-Jul-2006.mat

Stripline calibration

Current: 2e10.
Attenuation on channel 1 (A) = 21dB
Attenuation on channel 2 (B) = 21dB
Attenuation on channel 3 (C) = 26dB
Attenuation on channel 4 (D) = 30dB

calib_strips_x_1250_y_-1250_13-Jul-2006.mat
calib_strips_x_1250_y_-1750_13-Jul-2006.mat
calib_strips_x_1250_y_-250_13-Jul-2006.mat
calib_strips_x_1250_y_-750_13-Jul-2006.mat
calib_strips_x_1250_y_-750_2_13-Jul-2006.mat
calib_strips_x_1250_y_-750_3_13-Jul-2006.mat
calib_strips_x_1250_y_250_13-Jul-2006.mat
calib_strips_x_1750_y_-750_13-Jul-2006.mat (check last entries)
calib_strips_x_2250_y_-750_13-Jul-2006.mat
calib_strips_x_250_y_-750_13-Jul-2006.mat
calib_strips_x_750_y_-750_13-Jul-2006.mat

Testing CCD monitor

Attenuation on channel 1 (A) = 0dB
Attenuation on channel 2 (B) = 0dB
Attenuation on channel 4 (C+D) = 0dB
Trajectory: centred

7e9_13-Jul-2006.mat
5e9_13-Jul-2006.mat
1e7_13-Jul-2006.mat
3e6_13-Jul-2006.mat
3e6_2_13-Jul-2006.mat

Testing code

onechantest_13-Jul-2006.mat

Low charge stripline calibration

Attenuation on channel 1 (A) = 0dB
Attenuation on channel 2 (B) = 0dB
Attenuation on channel 3 (C) = 0dB
Attenuation on channel 4 (D) = 0dB

lowcharge_3e6_calib_-0.02kGm_13-Jul-2006.mat
lowcharge_3e6_calib_-0.04kGm_13-Jul-2006.mat
lowcharge_3e6_calib_0.02kGm_13-Jul-2006.mat (energy needed recentering)
lowcharge_3e6_calib_0.02kGm_2_13-Jul-2006.mat (deemed suspicious)
lowcharge_3e6_calib_0.02kGm_3_13-Jul-2006.mat
lowcharge_3e6_calib_0.04kGm_13-Jul-2006.mat
lowcharge_3e6_calib_0kGm_13-Jul-2006.mat (energy wandered off)
lowcharge_3e6_calib_0kGm_2_13-Jul-2006.mat
lowcharge_3e6_calib_0kGm_3_13-Jul-2006.mat
lowcharge_3e6_calib_x_-0.02kGm_13-Jul-2006.mat
lowcharge_3e6_calib_x_-0.04kGm_13-Jul-2006.mat
lowcharge_3e6_calib_x_0.02kGm_13-Jul-2006.mat
lowcharge_3e6_calib_x_0.04kGm_13-Jul-2006.mat
lowcharge_3e6_calib_x_0kGm_13-Jul-2006.mat
lowcharge_3e6_calib_x_0kGm_2_13-Jul-2006.mat

Moving beam onto mask

Attenuation on channel 1 (A) = 0dB
Attenuation on channel 2 (B) = 0dB
Attenuation on channel 3 (C) = 0dB
Attenuation on channel 4 (D) = 0dB

lowcharge_3e6_move_y_-1.5cm_13-Jul-2006.mat
lowcharge_3e6_move_y_-1.75cm_13-Jul-2006.mat
lowcharge_3e6_move_y_-1cm_13-Jul-2006.mat
lowcharge_3e6_move_y_-2.25cm_13-Jul-2006.mat

lowcharge_3e6_move_y_-2cm_13-Jul-2006.mat
lowcharge_3e6_move_y_0.5cm_13-Jul-2006.mat
lowcharge_3e6_move_y_0cm_2_13-Jul-2006.mat
lowcharge_3e6_move_y_1.5cm_13-Jul-2006.mat
lowcharge_3e6_move_y_1.75cm_13-Jul-2006.mat
lowcharge_3e6_move_y_1cm_13-Jul-2006.mat
lowcharge_3e6_move_y_2.25cm_13-Jul-2006.mat
lowcharge_3e6_move_y_2cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-0.5cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-0.5cm_y_0.5cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-0.75cm_y_0.75cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-1.25cm_y_1.25cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-1.4cm_y_1.4cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-1.5cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-1.75cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-1cm_13-Jul-2006.mat (a little low in y by 3mm and more like 0.8cm in x)
lowcharge_1e7_move_x_-1cm_y_1cm_13-Jul-2006.mat
lowcharge_1e7_move_x_-2cm_13-Jul-2006.mat
lowcharge_1e7_move_x_0.5cm_13-Jul-2006.mat
lowcharge_1e7_move_x_0.5cm_y_0.5cm_13-Jul-2006.mat
lowcharge_1e7_move_x_0.75cm_y_0.75cm_13-Jul-2006.mat
lowcharge_1e7_move_x_0cm_13-Jul-2006.mat
lowcharge_1e7_move_x_0cm_2_13-Jul-2006.mat
lowcharge_1e7_move_x_0cm_y_0cm_2_13-Jul-2006.mat
lowcharge_1e7_move_x_1.25cm_y_1.25cm_13-Jul-2006.mat
lowcharge_1e7_move_x_1.5cm_13-Jul-2006.mat
lowcharge_1e7_move_x_1.5cm_y_1.5cm_13-Jul-2006.mat
lowcharge_1e7_move_x_1.75cm_13-Jul-2006.mat
lowcharge_1e7_move_x_1cm_13-Jul-2006.mat
lowcharge_1e7_move_x_1cm_y_1cm_13-Jul-2006.mat
lowcharge_1e7_move_x_2cm_13-Jul-2006.mat

Repeated moving beam onto mask for “one channel” code (this has higher sampling rate)

Channel 1: No attenuation

testsinglechan_13-Jul-2006.mat
onechan_x_0.75_y_0.75_A_13-Jul-2006.mat
onechan_x_0.75_y_0.75_B_13-Jul-2006.mat
onechan_x_0.75_y_0.75_C_13-Jul-2006.mat
onechan_x_0.75_y_0.75_D_13-Jul-2006.mat
onechan_x_0_y_0_A_13-Jul-2006.mat
onechan_x_0_y_0_B_13-Jul-2006.mat
onechan_x_0_y_0_C_13-Jul-2006.mat
onechan_x_0_y_0_D_13-Jul-2006.mat
onechan_x_1.25_y_1.25_A_13-Jul-2006.mat
onechan_x_1.25_y_1.25_B_13-Jul-2006.mat
onechan_x_1.25_y_1.25_C_13-Jul-2006.mat

onechan_x_1.25_y_1.25_D_13-Jul-2006.mat
onechan_x_1.5_y_1.5_A_13-Jul-2006.mat
onechan_x_1.5_y_1.5_B_13-Jul-2006.mat
onechan_x_1.5_y_1.5_C_13-Jul-2006.mat
onechan_x_1.5_y_1.5_D_13-Jul-2006.mat
onechan_x_1_y_1_A_13-Jul-2006.mat
onechan_x_1_y_1_B_13-Jul-2006.mat
onechan_x_1_y_1_C_13-Jul-2006.mat
onechan_x_1_y_1_D_13-Jul-2006.mat

Moving beam onto mask at a higher charge

Attenuation on channel 1 (A) = 0dB
Attenuation on channel 2 (B) = 0dB
Attenuation on channel 3 (C) = 0dB
Attenuation on channel 4 (D) = 0dB

charge_inv_1e8_x_0_y_0_13-Jul-2006.mat
charge_inv_1e8_x_-1.25_y_0_13-Jul-2006.mat (moved well off charge)
charge_inv_1e8_x_-1.25_y_0_2_13-Jul-2006.mat
charge_inv_1e8_x_-1.5_y_0_2_13-Jul-2006.mat
charge_inv_1e8_x_-1.75_y_0_13-Jul-2006.mat
charge_inv_1e8_x_0_y_0_2_13-Jul-2006.mat
charge_inv_1e8_x_-1.25_y_0_3_13-Jul-2006.mat (current reset after this one)
charge_inv_1e8_x_-1.5_y_0_3_13-Jul-2006.mat
charge_inv_1e8_x_-1.75_y_0_2_13-Jul-2006.mat
charge_inv_1e8_x_-1.25_y_0_4_13-Jul-2006.mat
charge_inv_1e8_x_0_y_0_3_13-Jul-2006.mat
charge_inv_1e8_x_1.25_y_0_13-Jul-2006.mat
charge_inv_1e8_x_1.5_y_0_13-Jul-2006.mat
charge_inv_1e8_x_1.75_y_0_13-Jul-2006.mat
charge_inv_1e8_x_1.75_y_0_2_13-Jul-2006.mat
charge_inv_1e8_x_1.5_y_0_2_13-Jul-2006.mat
charge_inv_1e8_x_1.25_y_0_2_13-Jul-2006.mat
charge_inv_1e8_x_0_y_0_4_13-Jul-2006.mat

Processors Calibration

Channel 1 = A and B difference (6dB attenuation before hybrid on each)
Channel 2 = C and D difference (10dB attenuation before hybrid on each)
Channel 3 = C and D sum (10dB attenuation before hybrid on each)
Current = 2e10

calib_processors_x_-650_y_-1350_18-Jul-2006.mat
calib_processors_x_1250_y_-750_18-Jul-2006.mat
calib_processors_x_1250_y_-750_2_18-Jul-2006.mat
calib_processors_x_1550_y_-1050_18-Jul-2006.mat
calib_processors_x_1550_y_-450_18-Jul-2006.mat
calib_processors_x_1850_y_-1350_18-Jul-2006.mat
calib_processors_x_1850_y_-150_18-Jul-2006.mat

calib_processors_x_650_y_-1350_18-Jul-2006.mat
calib_processors_x_650_y_-150_2_18-Jul-2006.mat
calib_processors_x_950_y_-1050_18-Jul-2006.mat
calib_processors_x_950_y_-450_2_18-Jul-2006.mat

Moving beam onto mask with processor signals

Channel 1 = A and B difference
Channel 2 = C and D difference
Channel 3 = C and D sum
Current = 6e7 – 5e9

charge6e7_x_0.5_19-Jul-2006.mat
charge6e7_x_0.5_y_0.5_19-Jul-2006.mat (current poss a bit low?)
charge6e7_x_0_19-Jul-2006.mat
charge6e7_x_0_y_0_19-Jul-2006.mat
charge6e7_x_1.25_y_1.25_19-Jul-2006.mat
charge6e7_x_1.5_19-Jul-2006.mat
charge6e7_x_1_19-Jul-2006.mat
charge6e7_x_1_y_1_19-Jul-2006.mat
charge6e7_x_2_19-Jul-2006.mat
charge6e7_y_0.5_19-Jul-2006.mat
charge6e7_y_0_19-Jul-2006.mat
charge6e7_y_1.5_19-Jul-2006.mat
charge6e7_y_1_19-Jul-2006.mat
charge6e7_y_2_19-Jul-2006.mat
charge5e9_y_0_19-Jul-2006.mat (wirescans taken here)
charge1e9_x_-0.5_19-Jul-2006.mat
charge1e9_x_-0.5_y_0.5_19-Jul-2006.mat
charge1e9_x_-1.25_19-Jul-2006.mat
charge1e9_x_-1.25_y_1.25_19-Jul-2006.mat
charge1e9_x_-1_19-Jul-2006.mat
charge1e9_x_-1_y_1_19-Jul-2006.mat
charge1e9_x_0_19-Jul-2006.mat
charge1e9_x_0_y_0_19-Jul-2006.mat
charge1e9_y_0.5_19-Jul-2006.mat
charge1e9_y_0_19-Jul-2006.mat
charge1e9_y_1.5_19-Jul-2006.mat
charge1e9_y_1_19-Jul-2006.mat
charge1e9_y_2_19-Jul-2006.mat

A and B processor board in the tunnel

Channel 1 = A and B difference
Channel 2 = C and D difference
Channel 3 = C and D sum
Current = 1e9

ABintunnel_19-Jul-2006.mat