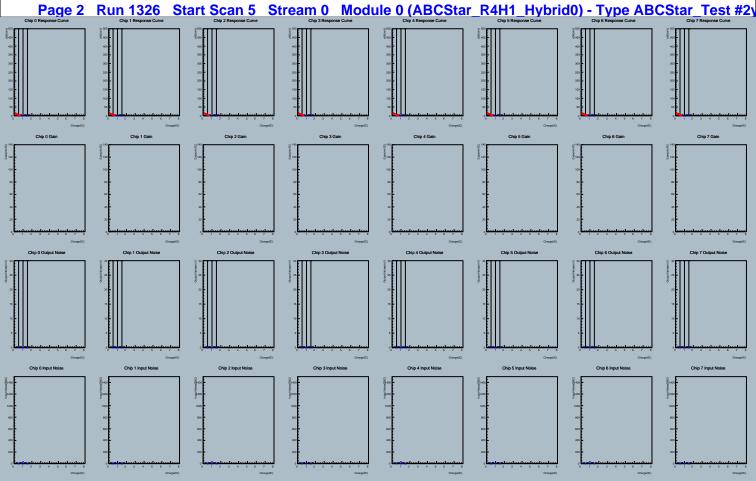
ATLAS ITk Test: Response vs. Channel - Wed Jun 1 16:41:03 2022 - TRIUMF Page 1 Run 1326 Start Scan 5 Stream 0 Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2y 250 r 50 E 896 1024 Gain at 1.00fC 120 = 100 E 80 F **=** 896 1024 Gain at 0fC 120 ⊏ 100 E 40 E 20 E 896 1024 Input Noise at 1.00fC 1400 E 400 E 896 1024



ATLAS ITk Test: Response vs. Channel - Wed Jun 1 16:41:03 2022 - TRIUMF Page 3 Run 1326 Start Scan 5 Stream 1 Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2y 250 r 200 150 100 E 50 E 128 384 768 256 512 Gain at 1.00fC 120 = 100 E 80 F 40 E 20 E 128 256 384 768 512 640 896 1024 Gain at 0fC 120 ⊏ 100 E 80 40 E 20 E 128 256 384 512 640 768 896 1024 Input Noise at 1.00fC 1400 E 1200 1000 800 600 400 E 200

896 1024

256

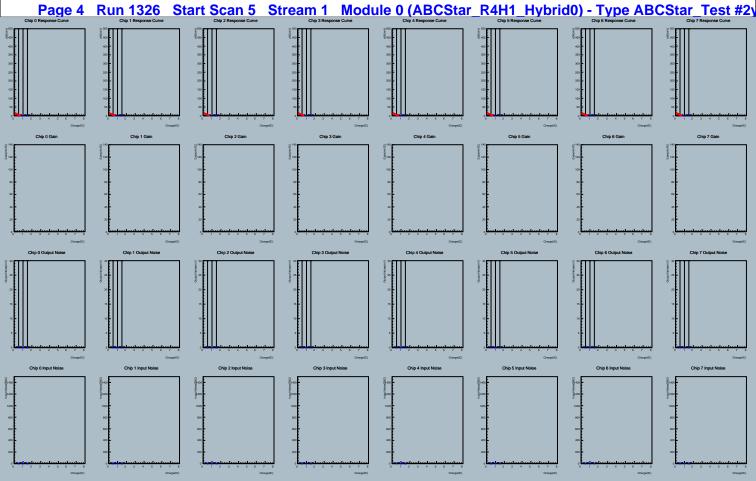
384

512

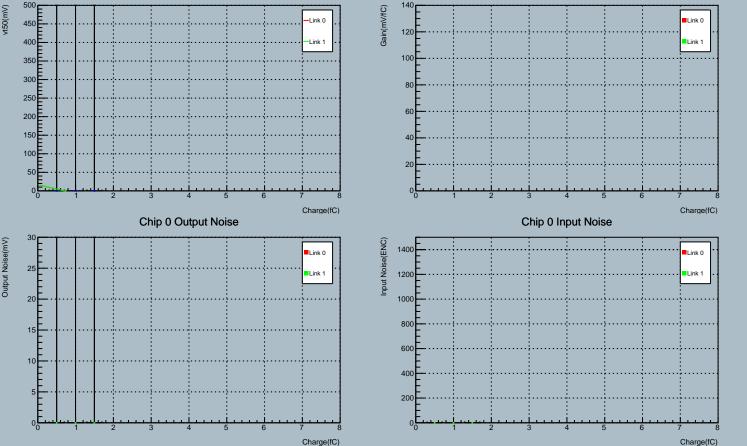
640

768

128

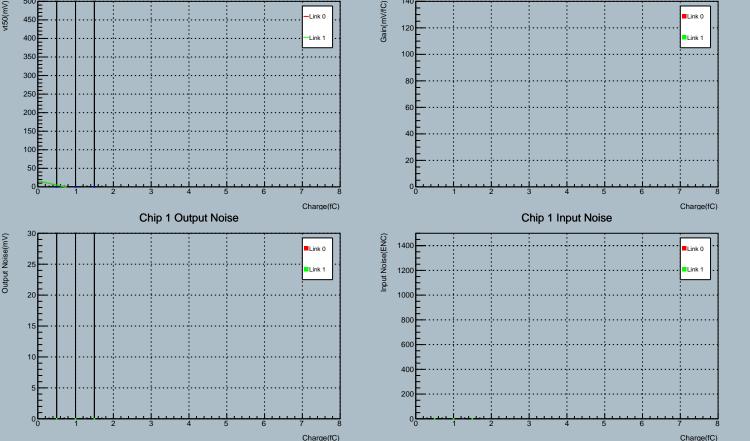


Page 4 Run 1326 Start Scan 5 Chip 0 (10) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2
Chip 0 Response Curve Chip 0 Gain

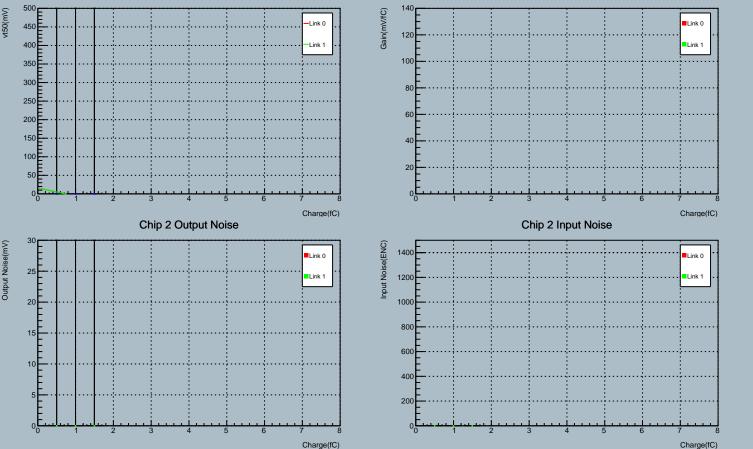


Page 5 Run 1326 Start Scan 5 Chip 1 (9) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2)
Chip 1 Response Curve

Chip 1 Gain



Page 6 Run 1326 Start Scan 5 Chip 2 (8) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2)
Chip 2 Response Curve Chip 2 Gain

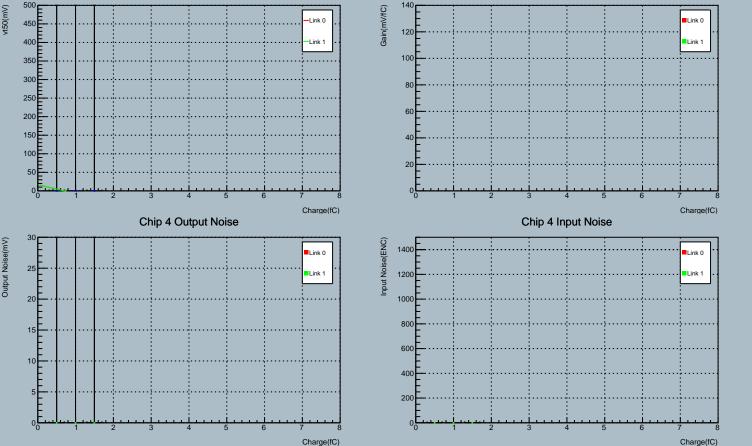


Charge(fC)

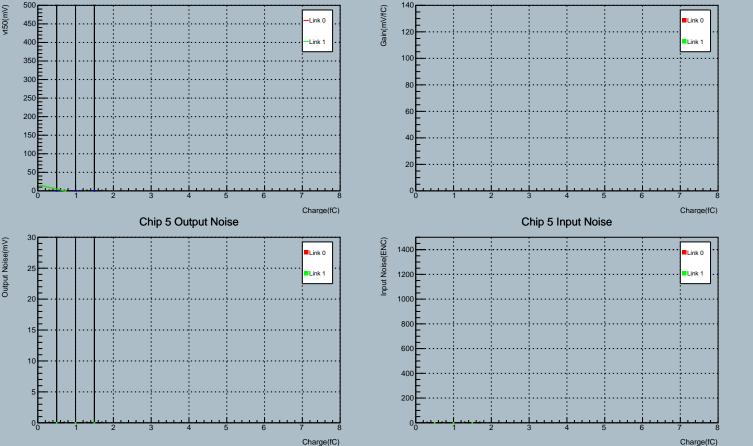
Page 7 Run 1326 Start Scan 5 Chip 3 (7) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2) Chip 3 Response Curve Chip 3 Gain 500 140 Sain(mV/fC) Link 0 450 120 Link 1 100 350 300 80 60 200 150 40 20 50 Charge(fC) Charge(fC) Chip 3 Output Noise Chip 3 Input Noise Input Noise(ENC 1400 Link 0 Link 1 1200 1000 800 600 400 200

Charge(fC)

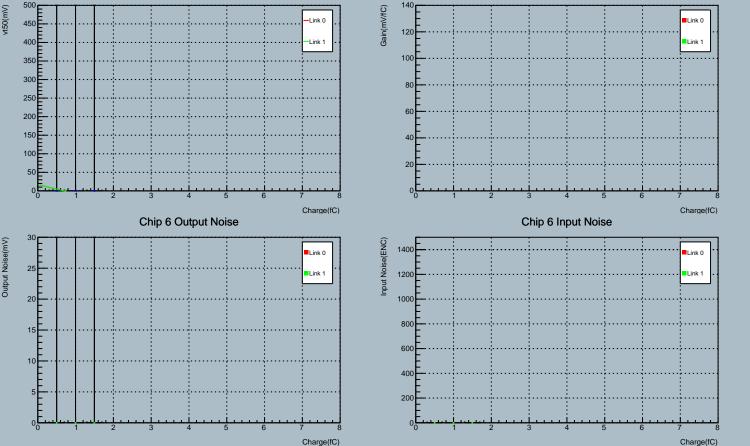
Page 8 Run 1326 Start Scan 5 Chip 4 (6) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #29 Chip 4 Response Curve Chip 4 Gain



Page 9 Run 1326 Start Scan 5 Chip 5 (5) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2)
Chip 5 Response Curve
Chip 5 Gain



Page 10 Run 1326 Start Scan 5 Chip 6 (4) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2
Chip 6 Response Curve Chip 6 Gain



Page 11 Run 1326 Start Scan 5 Chip 7 (3) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2
Chip 7 Response Curve Chip 7 Gain

