ATLAS ITk Test: Response vs. Channel - Wed Jun 22 15:57:09 2022 - TRIUMF Page 1 Run 1398 Start Scan 7 Stream 0 Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test 250 r 50 106.0 mV 120 = 100 E 120 □ 100 E 71.5 mV/fC 1024 1152 Input Noise at 1.00fC 1400 E 1024 1152

ATLAS ITk Test: Response Curve - Wed Jun 22 15:57:09 2022 - TRIUMF Page 2 Run 1398 Start Scan 7 Stream 0 Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test

Chip 7 Response Core

Chip 7 Response Cor Chip 0 Gain Chip 1 Gain Chip 2 Gain Chip 3 Gain Chip 4 Gain Chip 5 Gain Chip 6 Gain Chip 7 Gain Chip 8 Gain Chip 0 Output Noise Chip 1 Output Noise Chip 3 Output Noise Chip 0 Input Noise Chip 1 Input Noise Chip 2 Input Noise Chip 3 Input Noise Chip 4 Input Noise Chip 5 Input Noise Chip 6 Input Noise Chip 7 Input Noise Chip 8 Input Noise

ATLAS ITk Test: Response vs. Channel - Wed Jun 22 15:57:09 2022 - TRIUMF Page 3 Run 1398 Start Scan 7 Stream 1 Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test 250 -50 = 106.2 mV Gain at 1.00fC 120 \_ 100 E Gain at 0fC 120 □ 100 F 1024 1152 Input Noise at 1.00fC 1400 E 1000 E 1127.2 e

ATLAS ITk Test: Response Curve - Wed Jun 22 15:57:09 2022 - TRIUMF Page 4 Run 1398 Start Scan 7 Stream 1 Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test

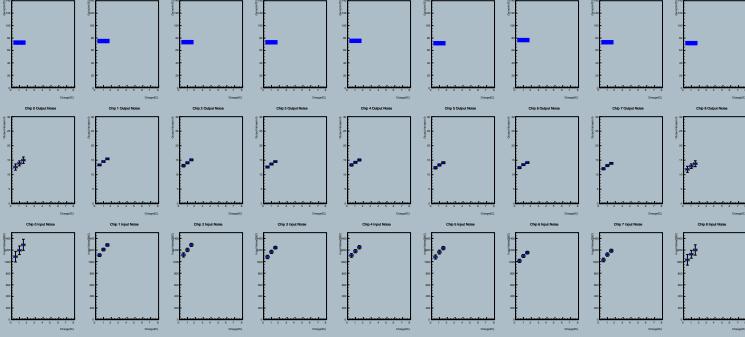
City of Response Cores

City of Response Core

City of Response Cores

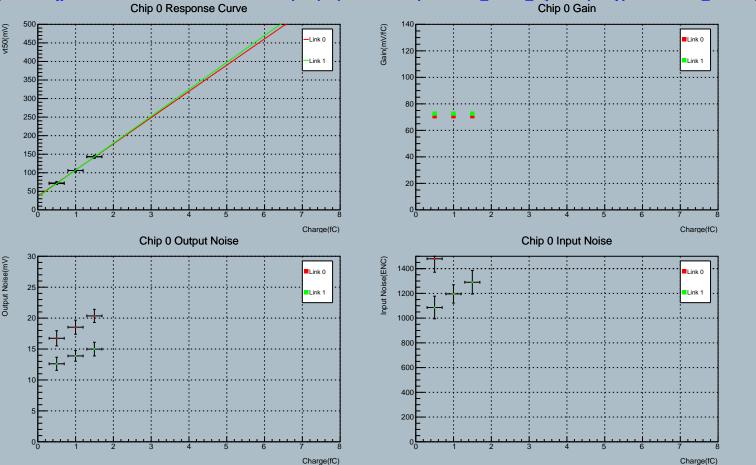
City of Response Core

City o Chip 0 Gain Chip 1 Gain Chip 2 Gain Chip 3 Gain Chip 4 Gain Chip 5 Gain Chip 6 Gain Chip 7 Gain Chip 8 Gain Chip 3 Output Noise Chip 0 Input Noise Chip 1 Input Noise Chip 2 Input Noise Chip 3 Input Noise Chip 4 Input Noise Chip 5 Input Noise Chip 6 Input Noise Chip 7 Input Noise Chip 8 Input Noise



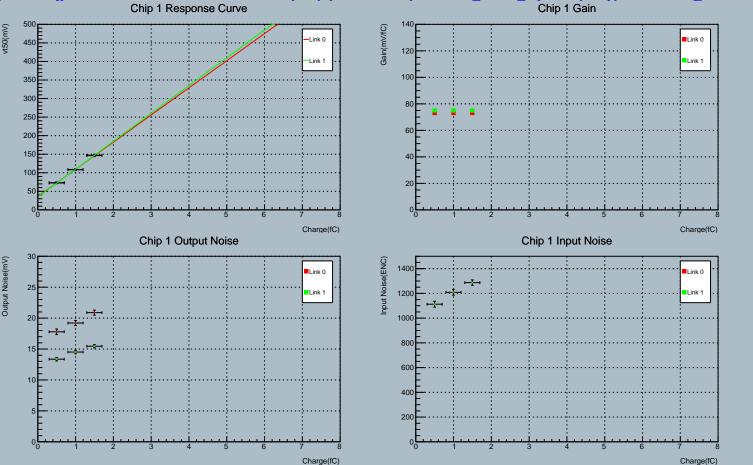
ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 4 Run 1398 Start Scan 7 Chip 0 (10) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test



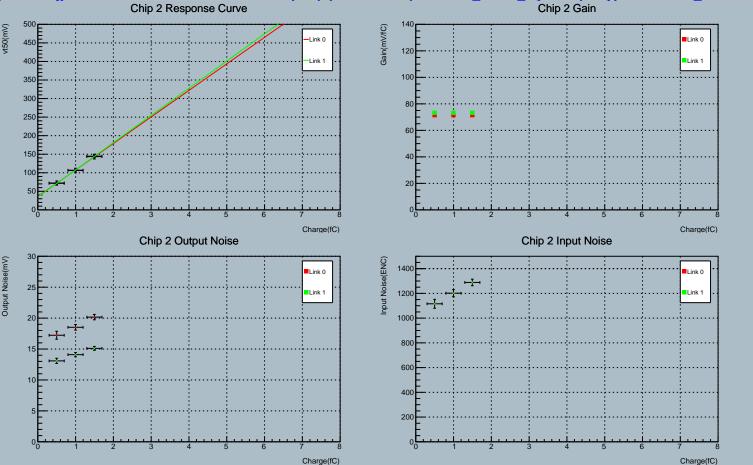
## ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 5 Run 1398 Start Scan 7 Chip 1 (9) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test



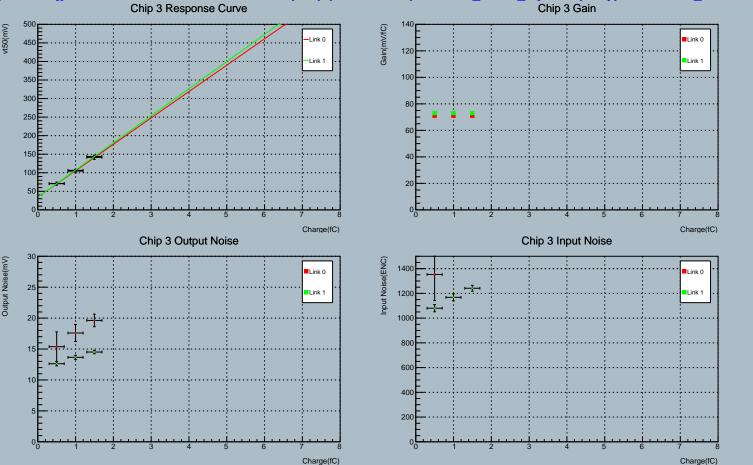
ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 6 Run 1398 Start Scan 7 Chip 2 (8) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test



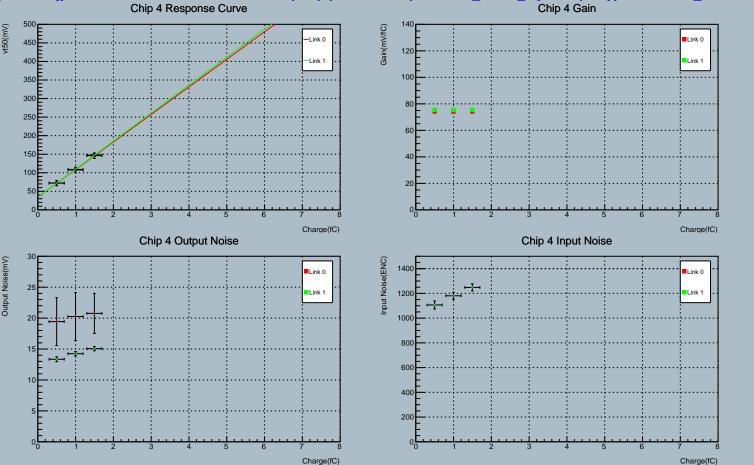
ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 7 Run 1398 Start Scan 7 Chip 3 (7) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test



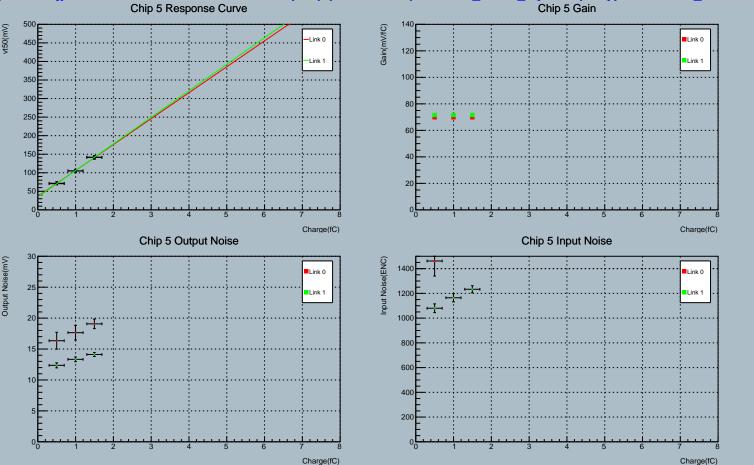
ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 8 Run 1398 Start Scan 7 Chip 4 (6) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test



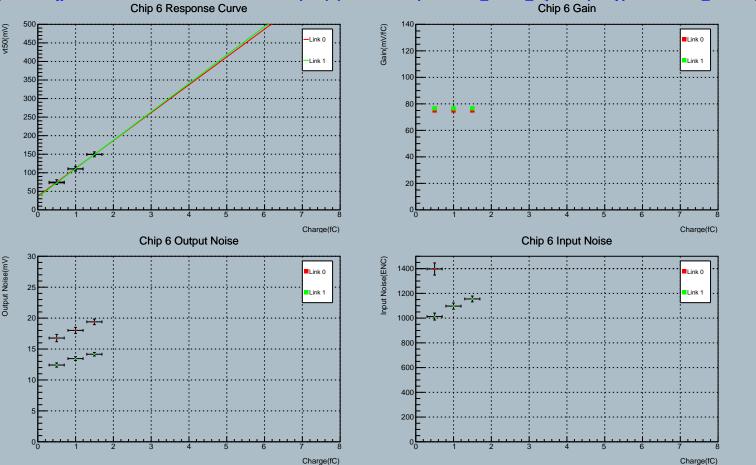
ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 9 Run 1398 Start Scan 7 Chip 5 (5) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test



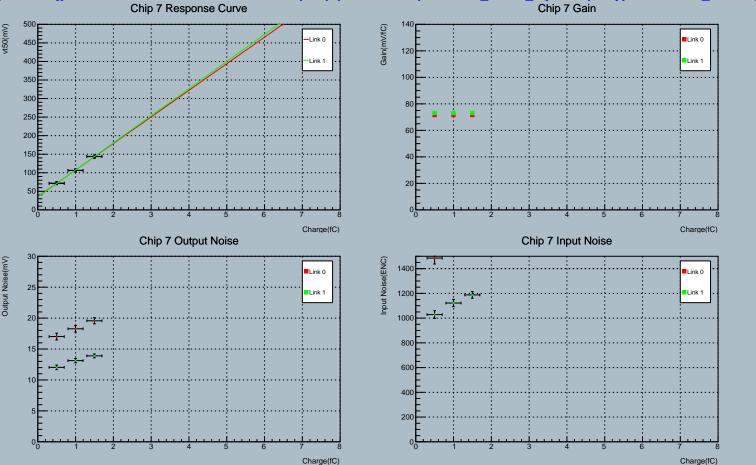
ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 10 Run 1398 Start Scan 7 Chip 6 (4) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test



ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 11 Run 1398 Start Scan 7 Chip 7 (3) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test



ATLAS ITk Test: Response Curve detail - Wed Jun 22 15:57:09 2022 - TRIUMF

Page 12 Run 1398 Start Scan 7 Chip 8 (2) Module 0 (ABCStar\_R5H1\_Hybrid2) - Type ABCStar\_Test

