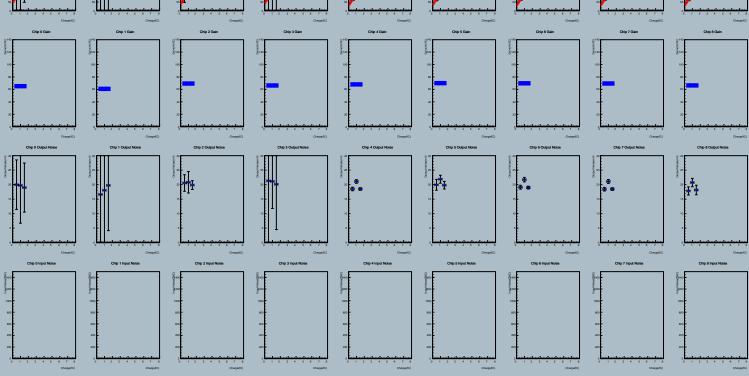
ATLAS ITk Test: Response vs. Channel - Tue May 31 15:53:11 2022 - TRIUMF Page 1 Run 1309 Start Scan 6 Stream 0 Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test 250 r 200 150 100 E-50 E Gain at 1.00fC 120 F 100 E 80 40 20 896 120 □ 100 E 80 40 20 896 1024 1152 640 768 Input Noise at 1.00fC 1400 E 1200 1000 800 600 400 200 640 768 1024 1152

## ATLAS ITk Test: Response Curve - Tue May 31 15:53:11 2022 - TRIUMF Page 2 Run 1309 Start Scan 6 Stream 0 Module 1 (ABCStar\_R5H0\_Hybrid3) - 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 1 Output Noise Chip 2 Output Noise Chip 3 Output Noise

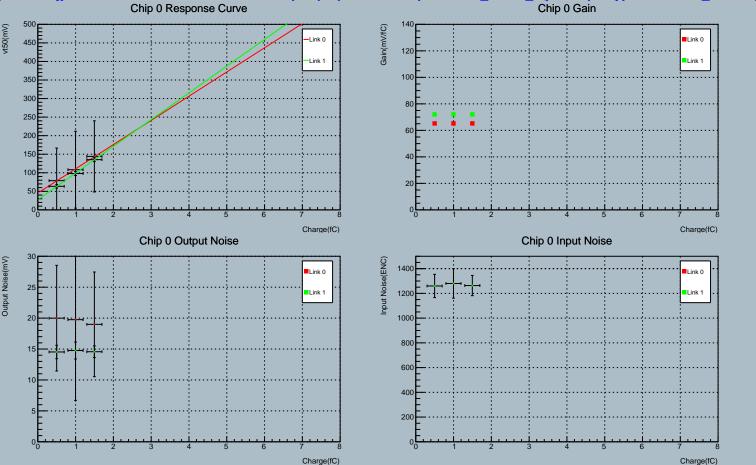


ATLAS ITk Test: Response vs. Channel - Tue May 31 15:53:11 2022 - TRIUMF Page 3 Run 1309 Start Scan 6 Stream 1 Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test 250 r 50 = 97.8 mV Gain at 1.00fC 120 ⊏ 100 E 120 🗖 1024 1152 Input Noise at 1.00fC 

## ATLAS ITk Test: Response Curve - Tue May 31 15:53:11 2022 - TRIUMF Page 4 Run 1309 Start Scan 6 Stream 1 Module 1 (ABCStar\_R5H0\_Hybrid3) - 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

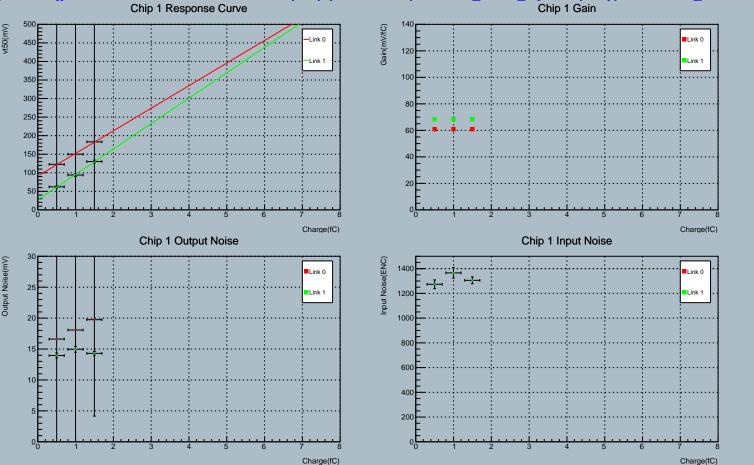
ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF

Page 4 Run 1309 Start Scan 6 Chip 0 (10) Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test



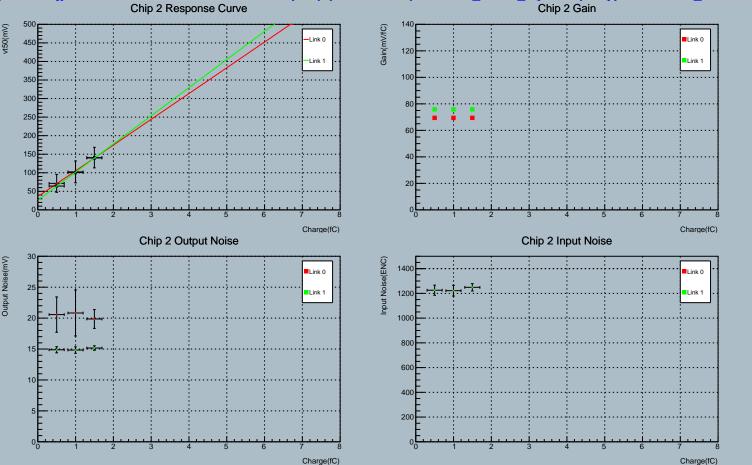
ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF

Page 5 Run 1309 Start Scan 6 Chip 1 (9) Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test



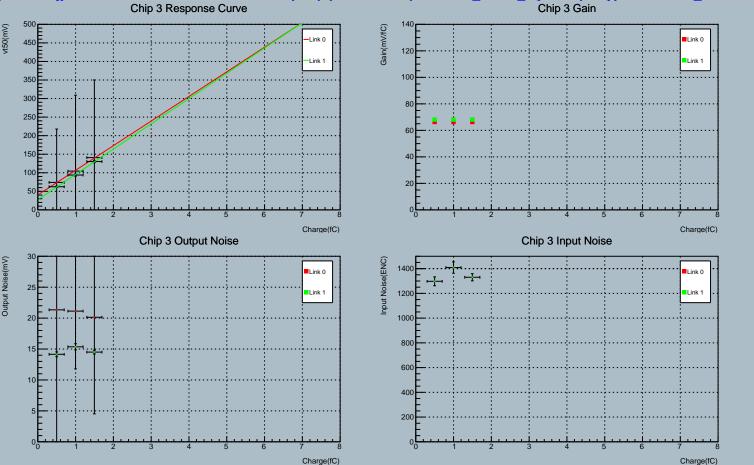
ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF





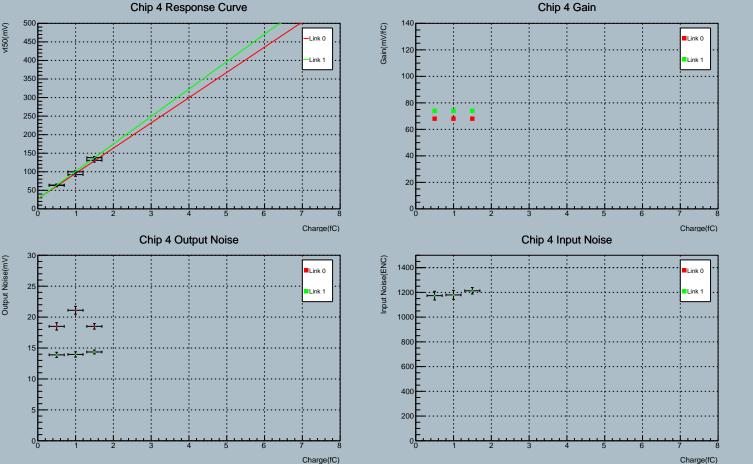
ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF

Page 7 Run 1309 Start Scan 6 Chip 3 (7) Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test



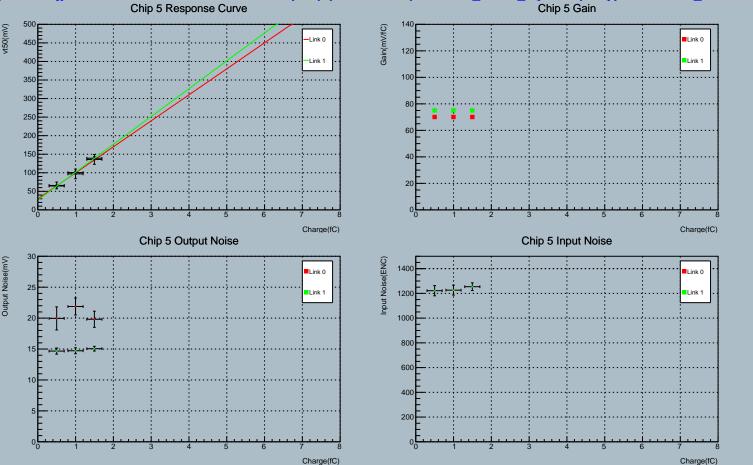
ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF

Page 8 Run 1309 Start Scan 6 Chip 4 (6) Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test



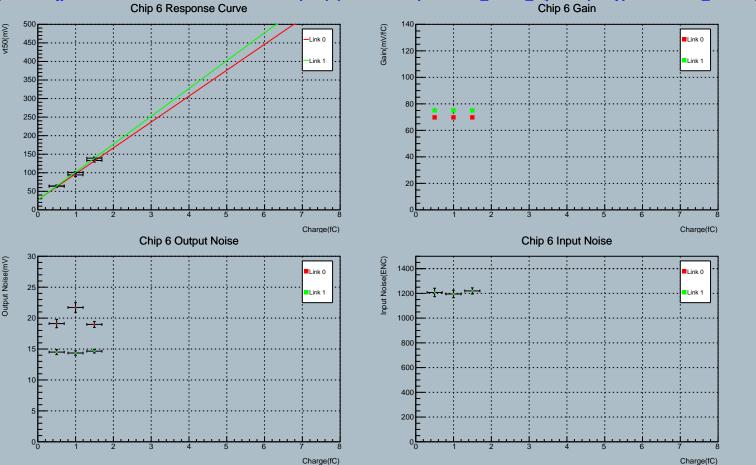
ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF

Page 9 Run 1309 Start Scan 6 Chip 5 (5) Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test



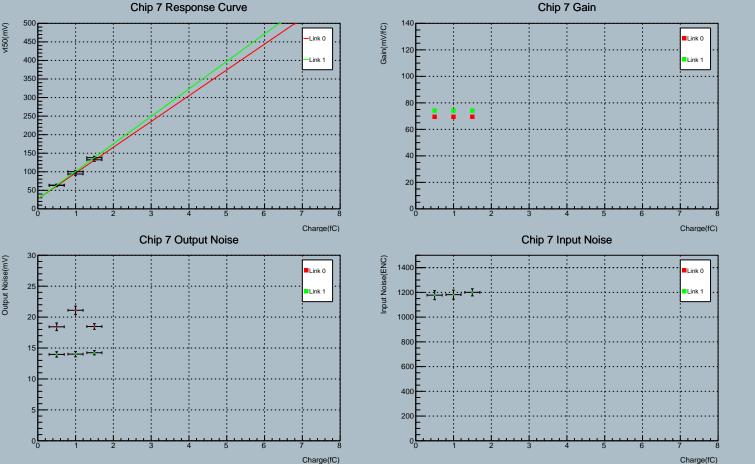
ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF

Page 10 Run 1309 Start Scan 6 Chip 6 (4) Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test



ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF

Page 11 Run 1309 Start Scan 6 Chip 7 (3) Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test



ATLAS ITk Test: Response Curve detail - Tue May 31 15:53:11 2022 - TRIUMF

Page 12 Run 1309 Start Scan 6 Chip 8 (2) Module 1 (ABCStar\_R5H0\_Hybrid3) - Type ABCStar\_Test

