ATLAS ITk Test: Response vs. Channel - Tue May 31 15:55:07 2022 - TRIUMF Page 1 Run 1309 Start Scan 9 Stream 0 Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test 250 r 50 = 125.2 mV Gain at 1.50fC 120 = 100 E 120 □ 100 F 1024 1152 Input Noise at 1.50fC 1400 E 1024 1152

ATLAS ITk Test: Response Curve - Tue May 31 15:55:07 2022 - TRIUMF Page 2 Run 1309 Start Scan 9 Stream 0 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 0 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 - Tue May 31 15:55:07 2022 - TRIUMF Page 3 Run 1309 Start Scan 9 Stream 1 Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test 250 -50 = 134.0 mV Gain at 1.50fC 120 -100 E Gain at 0fC 120 □ 100 F 1024 1152 Input Noise at 1.50fC 1057.2 e

ATLAS ITk Test: Response Curve - Tue May 31 15:55:07 2022 - TRIUMF Page 4 Run 1309 Start Scan 9 Stream 1 Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test

Type ABCStar_Test

Obj 3 Response Cores

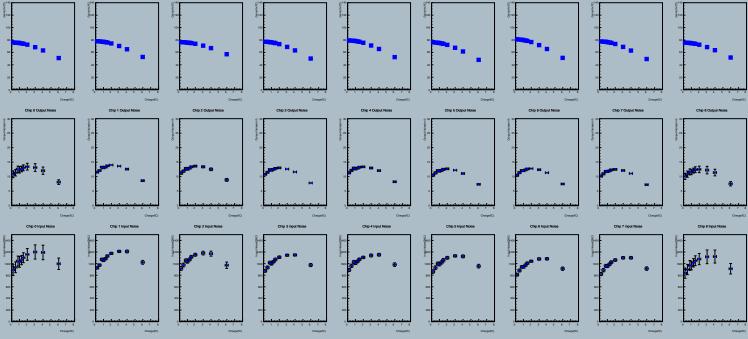
Obj 5 Response Cores

Obj 5 Response Cores

Obj 5 Response Cores

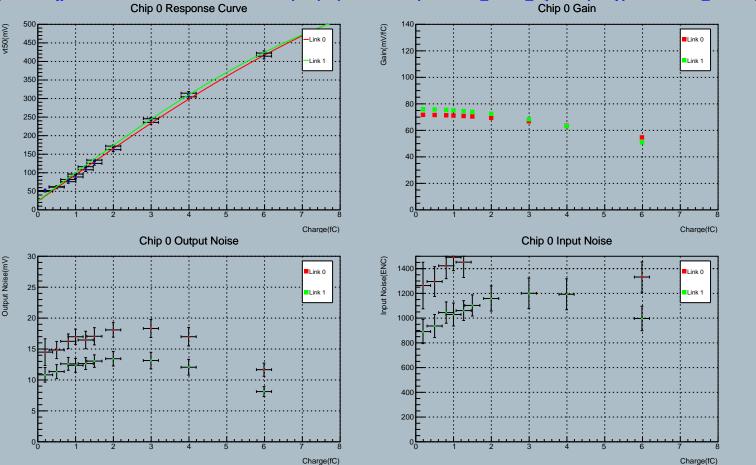
Obj 6 Response Cores

Obj 7 Response Cores 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 3 Output Noise



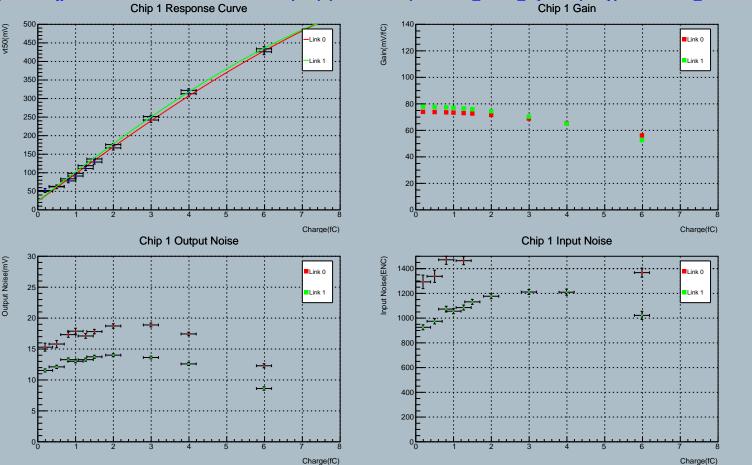
ATLAS ITk Test: Response Curve detail - Tue May 31 15:55:07 2022 - TRIUMF

Page 4 Run 1309 Start Scan 9 Chip 0 (10) Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test



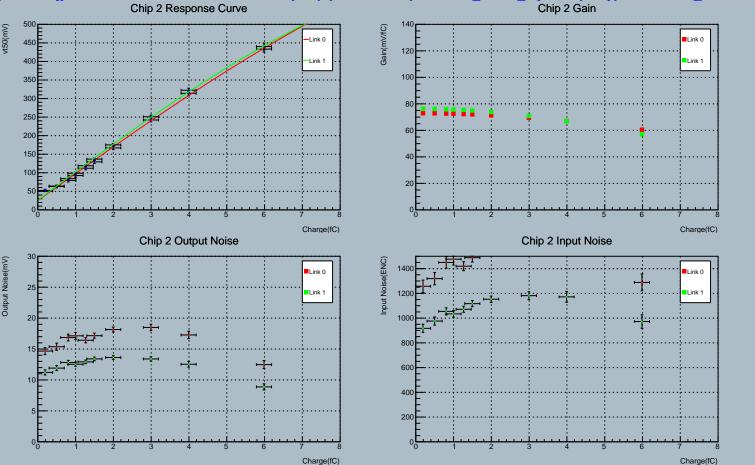
ATLAS ITk Test: Response Curve detail - Tue May 31 15:55:07 2022 - TRIUMF

Page 5 Run 1309 Start Scan 9 Chip 1 (9) Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test



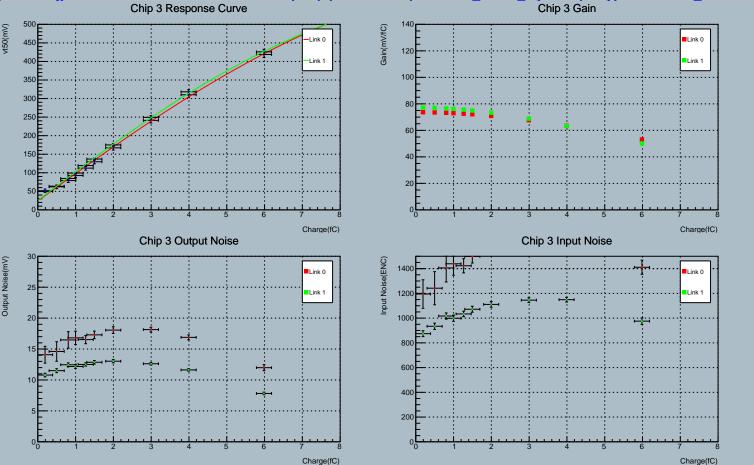
ATLAS ITk Test: Response Curve detail - Tue May 31 15:55:07 2022 - TRIUMF

Page 6 Run 1309 Start Scan 9 Chip 2 (8) Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test



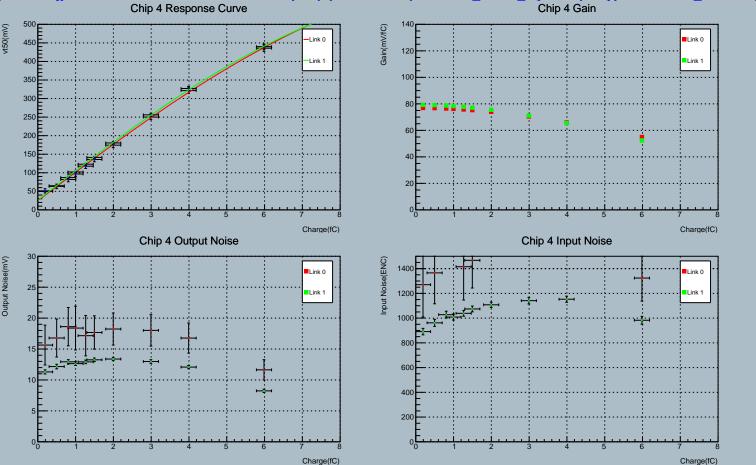
ATLAS ITk Test: Response Curve detail - Tue May 31 15:55:07 2022 - TRIUMF

Page 7 Run 1309 Start Scan 9 Chip 3 (7) Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test



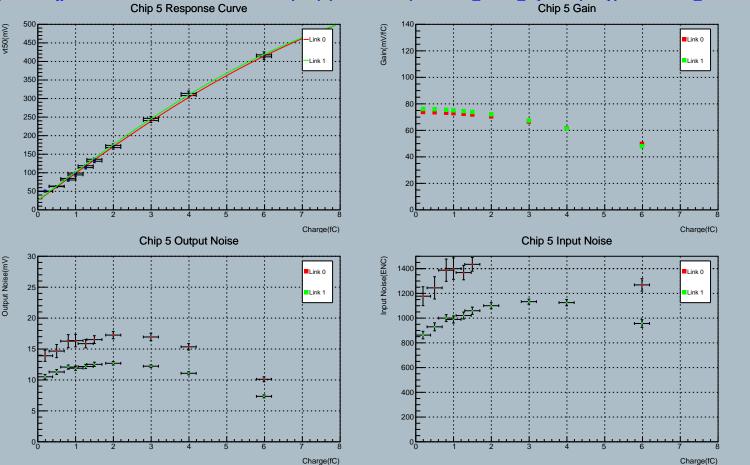
ATLAS ITk Test: Response Curve detail - Tue May 31 15:55:07 2022 - TRIUMF





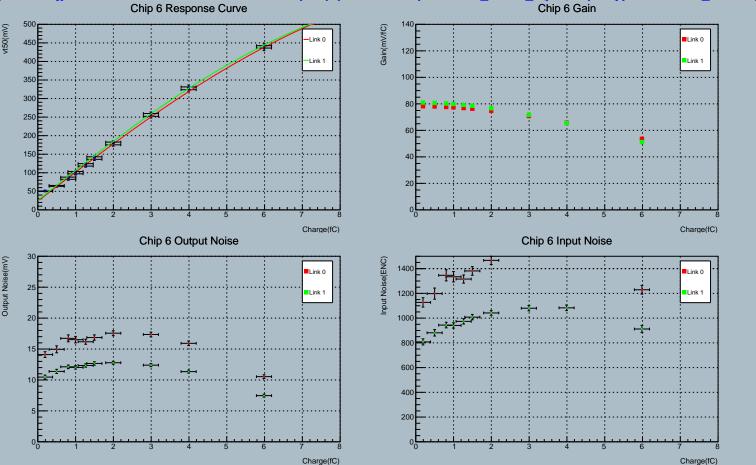
ATLAS ITk Test: Response Curve detail - Tue May 31 15:55:07 2022 - TRIUMF

Page 9 Run 1309 Start Scan 9 Chip 5 (5) Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test



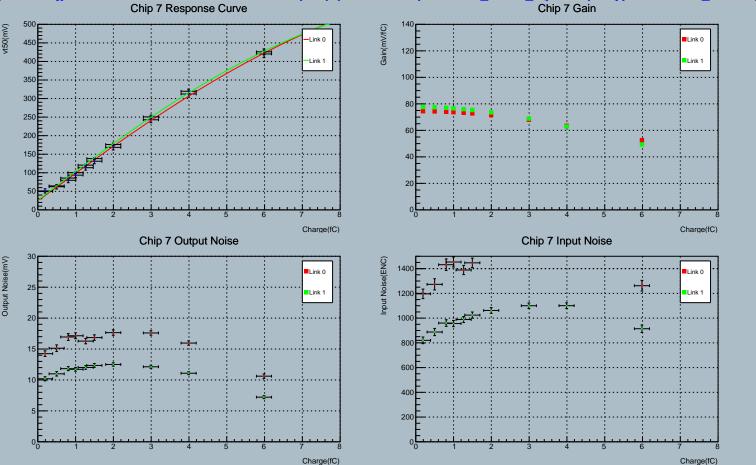
ATLAS ITk Test: Response Curve detail - Tue May 31 15:55:07 2022 - TRIUMF

Page 10 Run 1309 Start Scan 9 Chip 6 (4) Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test



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Page 11 Run 1309 Start Scan 9 Chip 7 (3) Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test



ATLAS ITk Test: Response Curve detail - Tue May 31 15:55:07 2022 - TRIUMF

Page 12 Run 1309 Start Scan 9 Chip 8 (2) Module 0 (ABCStar_R5H1_Hybrid2) - Type ABCStar_Test

