

Institute of Experimental and Applied Physics Czech Technical University in Prague

POSTER ID 222

Integrated USB based readout interface for silicon strip detectors of the ATLAS SCT module

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International Workshop on Radiation Imaging Detectors iWoRID 2011

Integrated USB based readout interface for silicon strip detectors of the ATLAS SCT module

ATLAS SCT – Large area strip silicon detector
 Sensitive area up to 70 cm², 768 strips, pitch 70 μm

New Integrated Interface
 Provides control, DAQ and power
 Tracking & exposition mode
 C++ based acquisition software

File View Options Help	
20 40 60 80 100 120 140 160 180 200 220 240 250 280 300 330 340 350 350 430 440 450 450	3 500 520 540 560 560 600 620 640 660 680 700 720 740 760
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480	500 520 540 560 560 600 620 840 660 660 700 720 740 760
Trigger Aca Type: Aca Mode:	ottage Control Env. & El. Values Dig. Voltage [V] 3.96 Anal. Voltage [V] 3.43 Dig. Current (mA) 568
Inf. 60 😼 100000 150000	HV: ON Sources Sources
File Output File Output Cluster Size 0 Fr Tc	Air Temp. [*C] 19.4 Module Temp. [*C] 28.4 Hugeldb. (%) 62.7

