



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

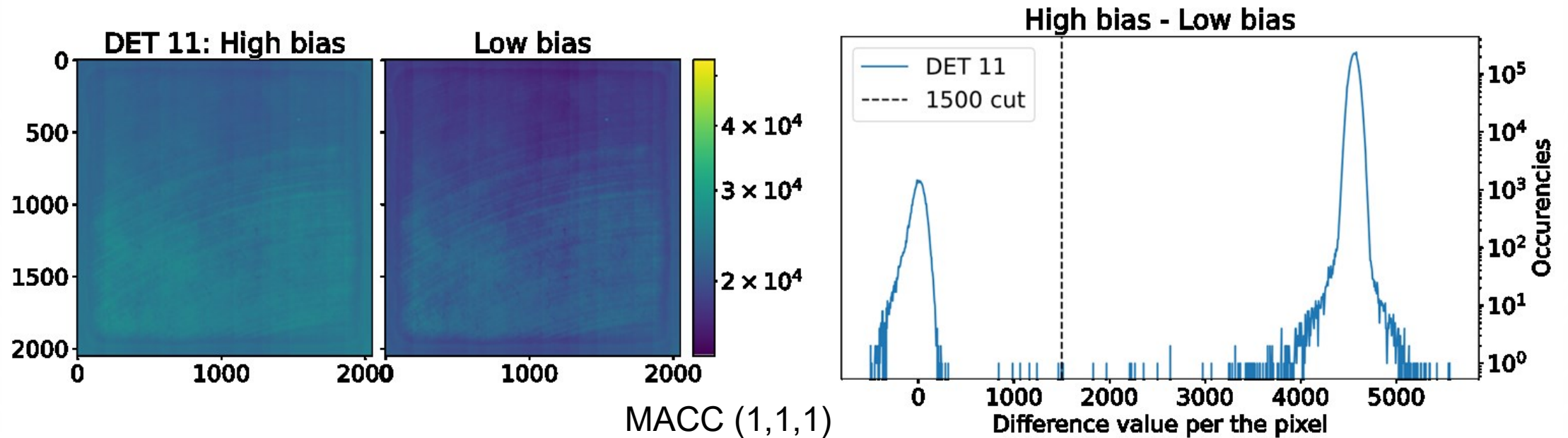
# CSL Tests results

Antonino TROJA (UNIPD, INFN PD)

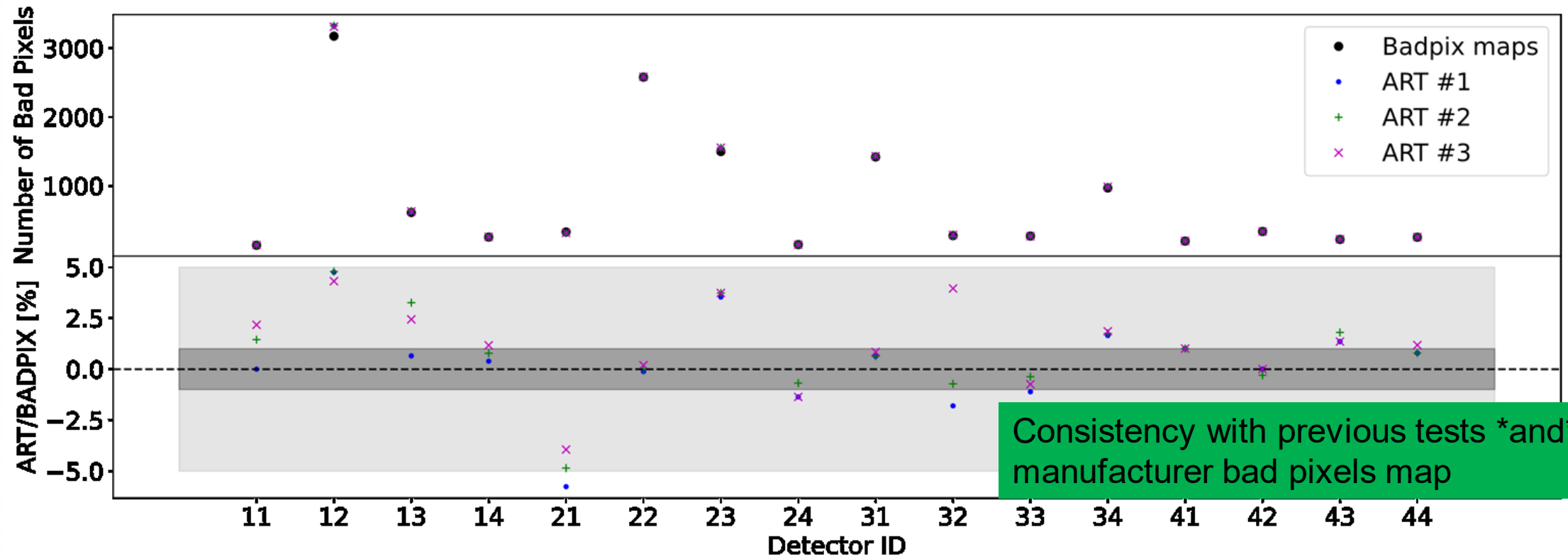
ON BEHALF OF NISP IDT

Reference document: EUCL-INFN-TR-7-009

# Ambient Reference Test: Disconnected pixels count



# Ambient Reference Test#3: Results

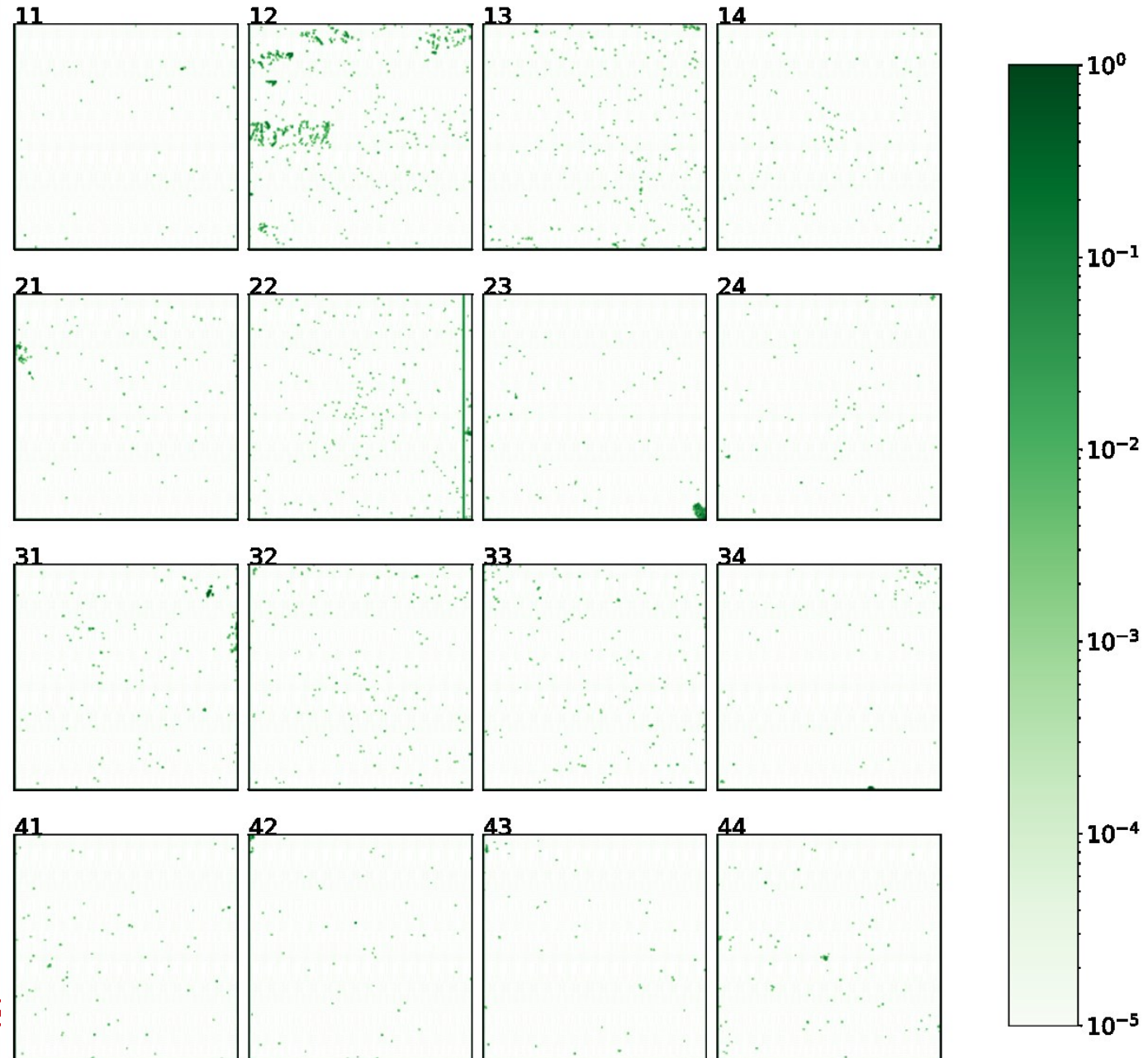


Consistency with previous tests \*and\* manufacturer bad pixels map

# ART#3: NISP Focal plane disconnected pixels distribution

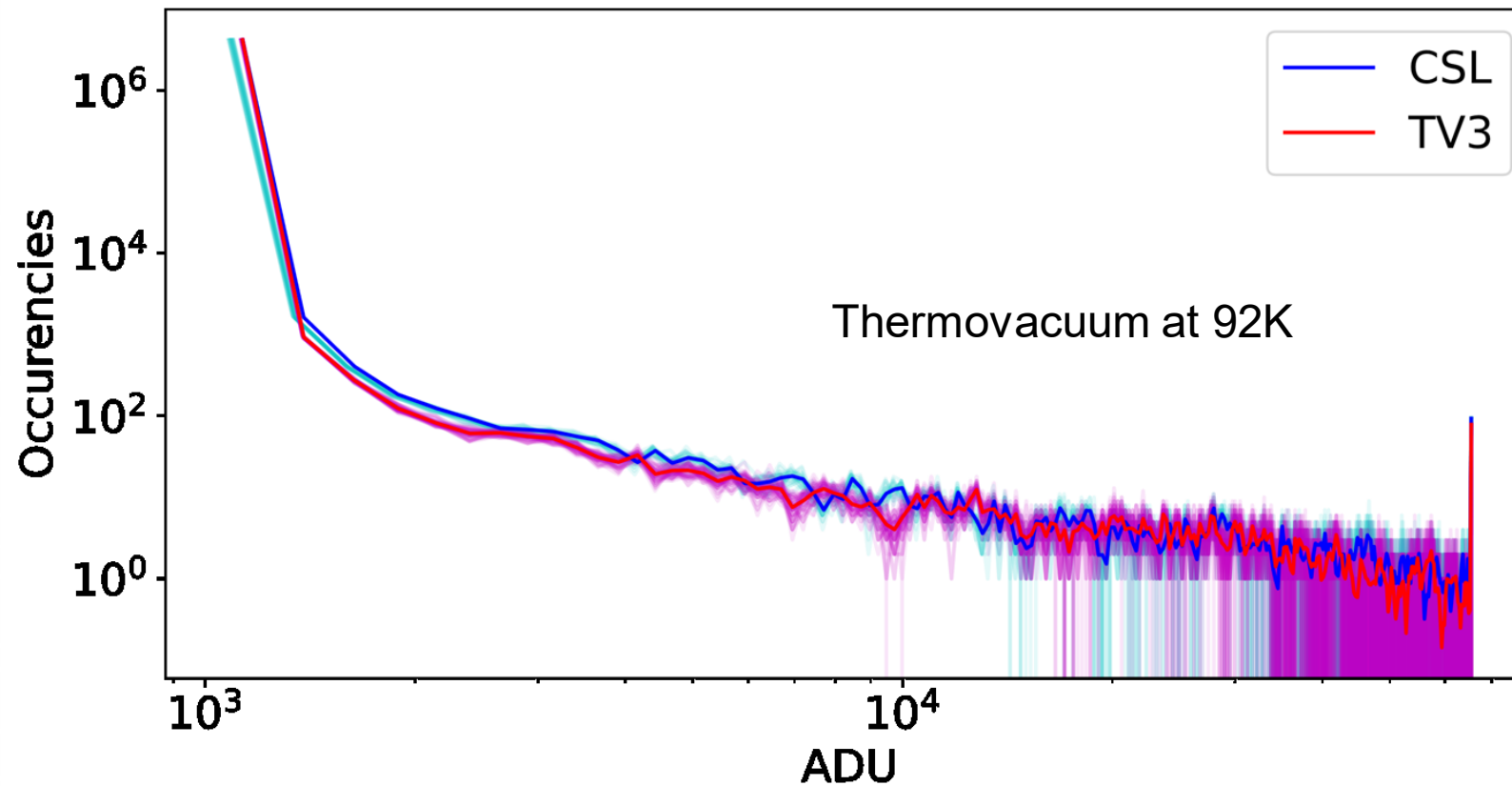
Detector 11: 0.003% Detector 12: 0.077%  
 Detector 13: 0.014% Detector 14: 0.006%  
 Detector 21: 0.007% Detector 22: 0.061%  
 Detector 23: 0.036% Detector 24: 0.003%  
 Detector 31: 0.034% Detector 32: 0.006%  
 Detector 33: 0.006% Detector 34: 0.023%  
 Detector 41: 0.005% Detector 42: 0.008%  
 Detector 43: 0.005% Detector 44: 0.006%

%Npix < 0.1%



# CSL tests: Signal Distribution

## Detector 11

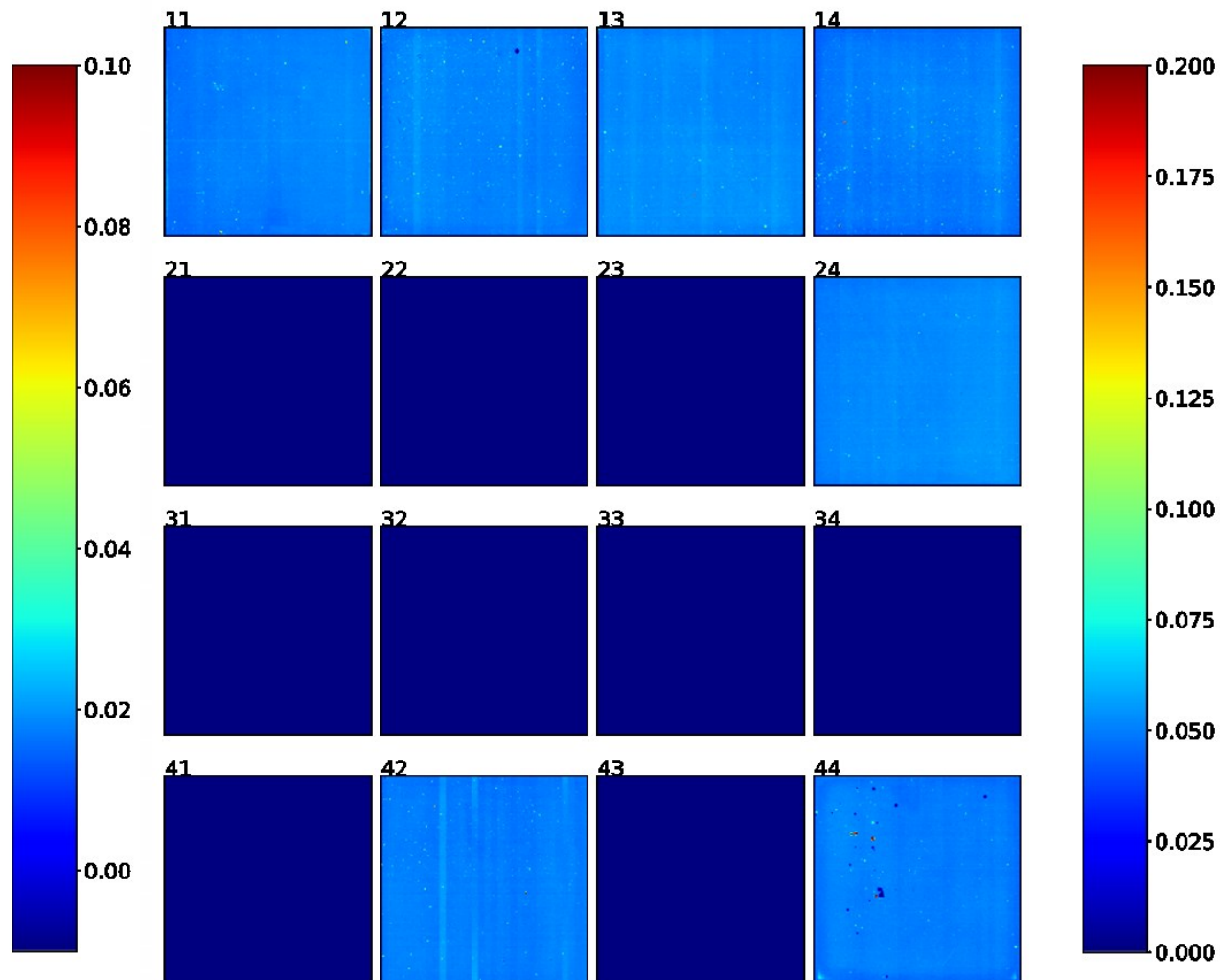
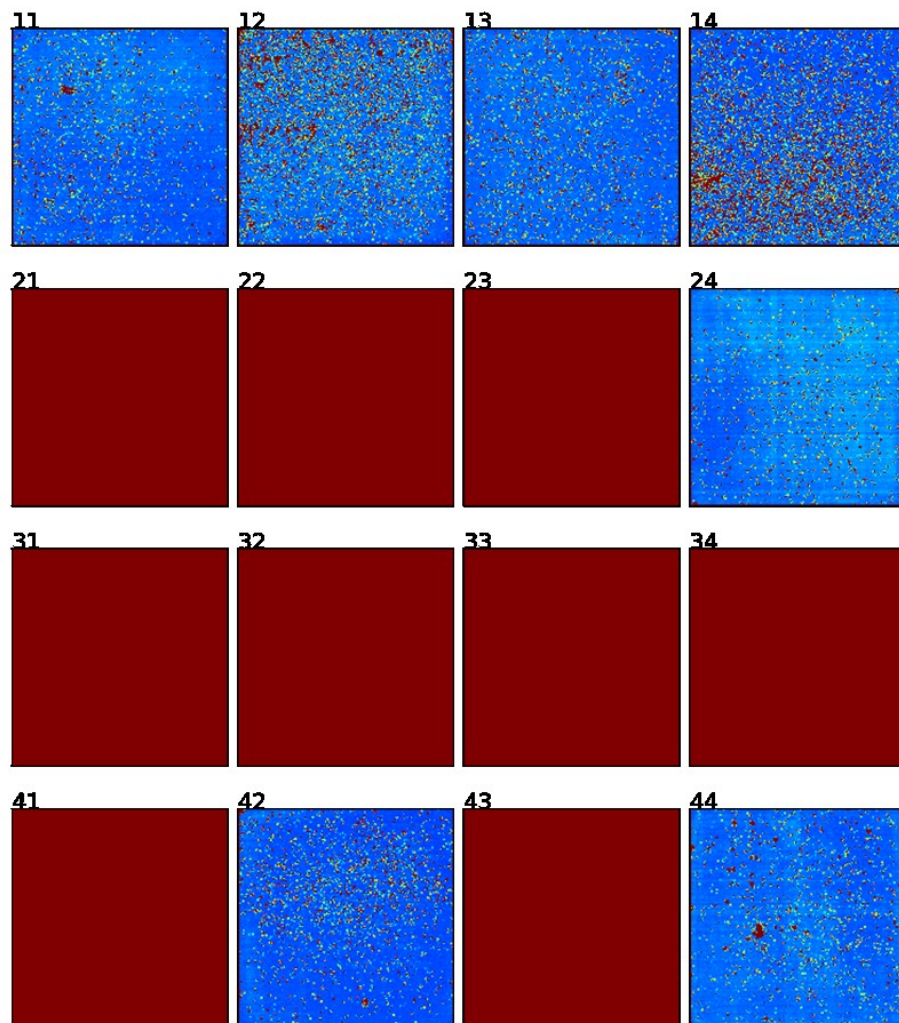


112 acquisitions  
MACC (4,16,4)

# Photometric results

Time Average

Time Std Dev

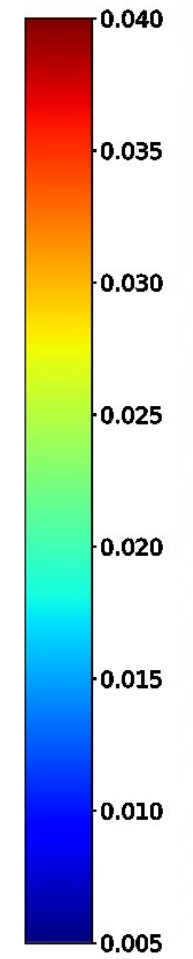
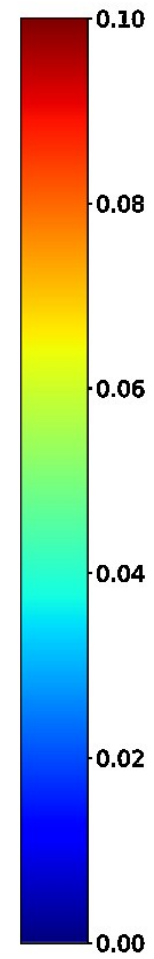
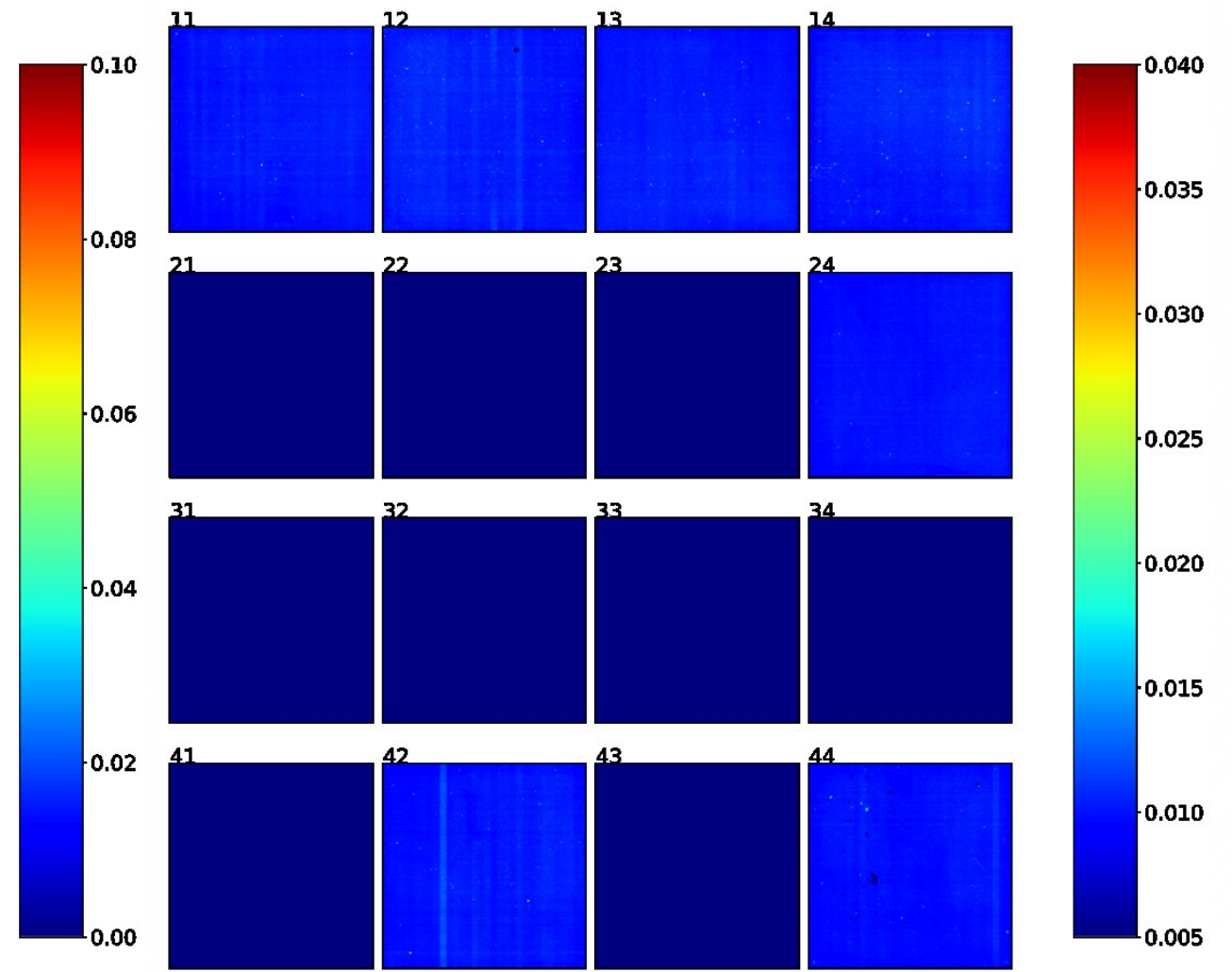
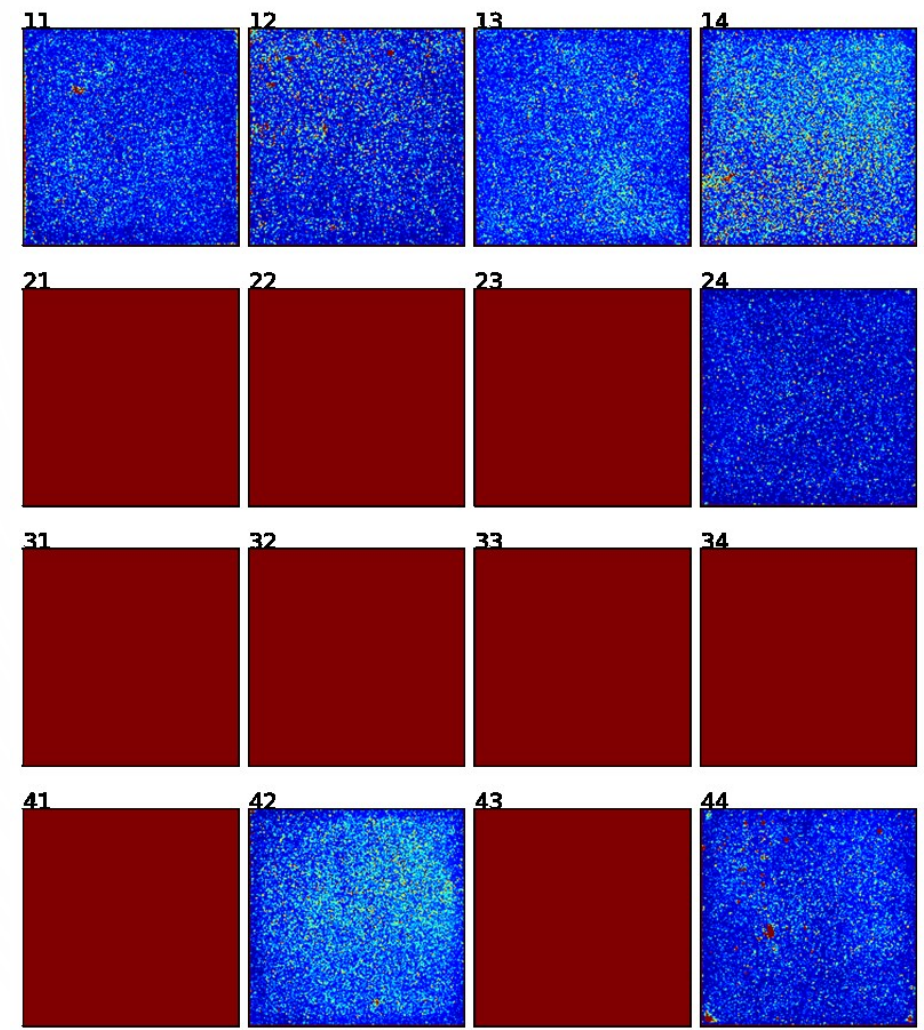


20 acquisitions  
MACC (15,16,11)

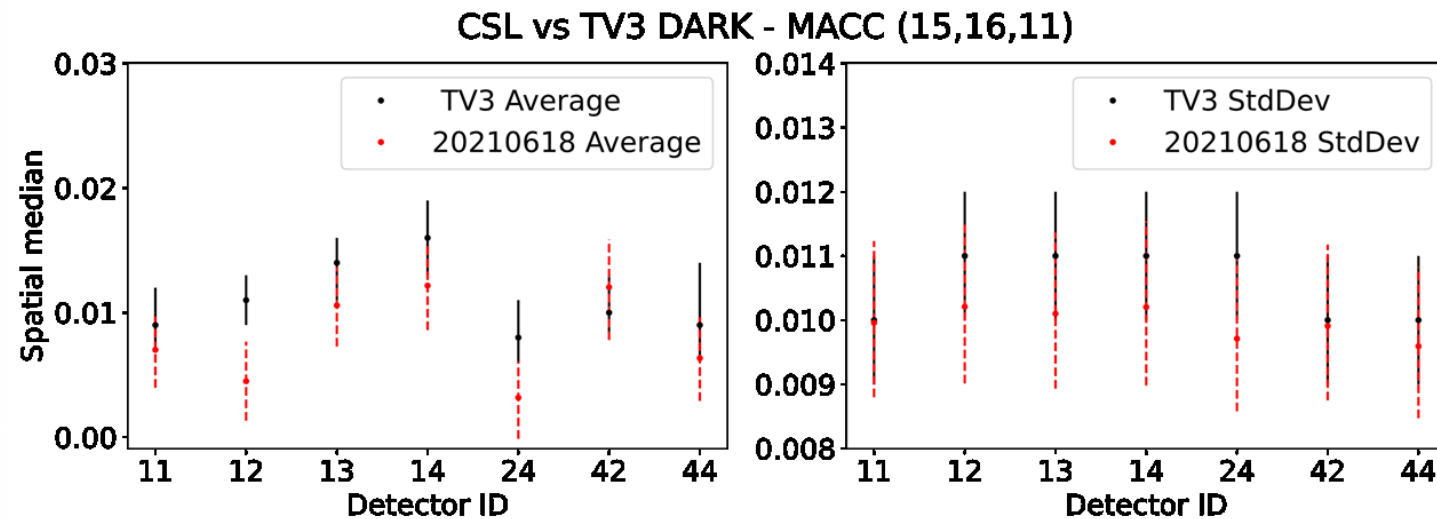
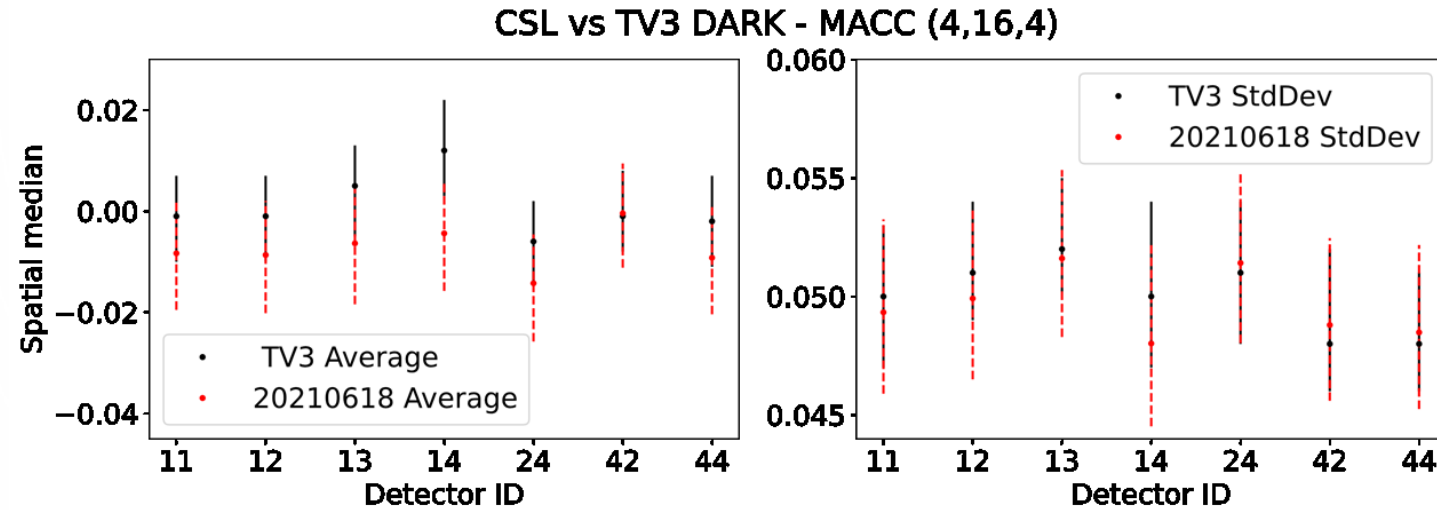
# Spectroscopic results

Time Average

Time Std Dev

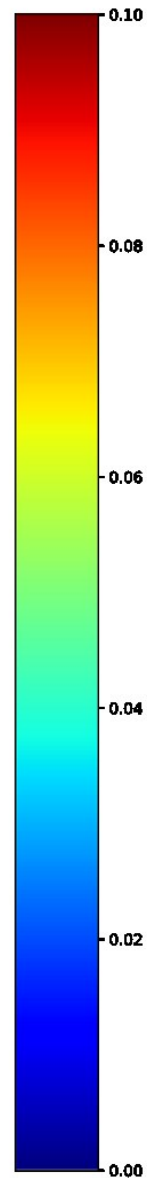
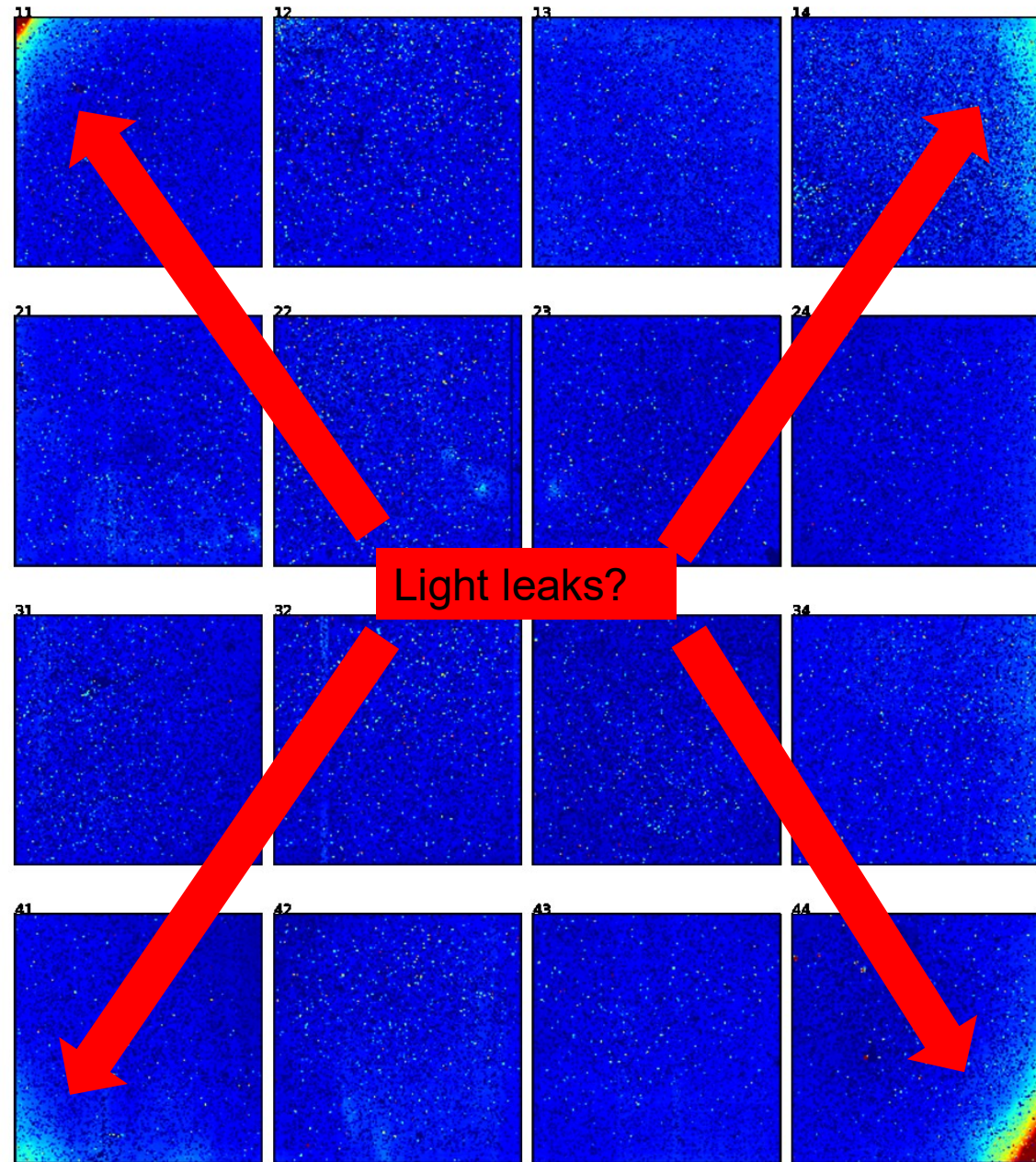


# Comparison with TV3 fluxes



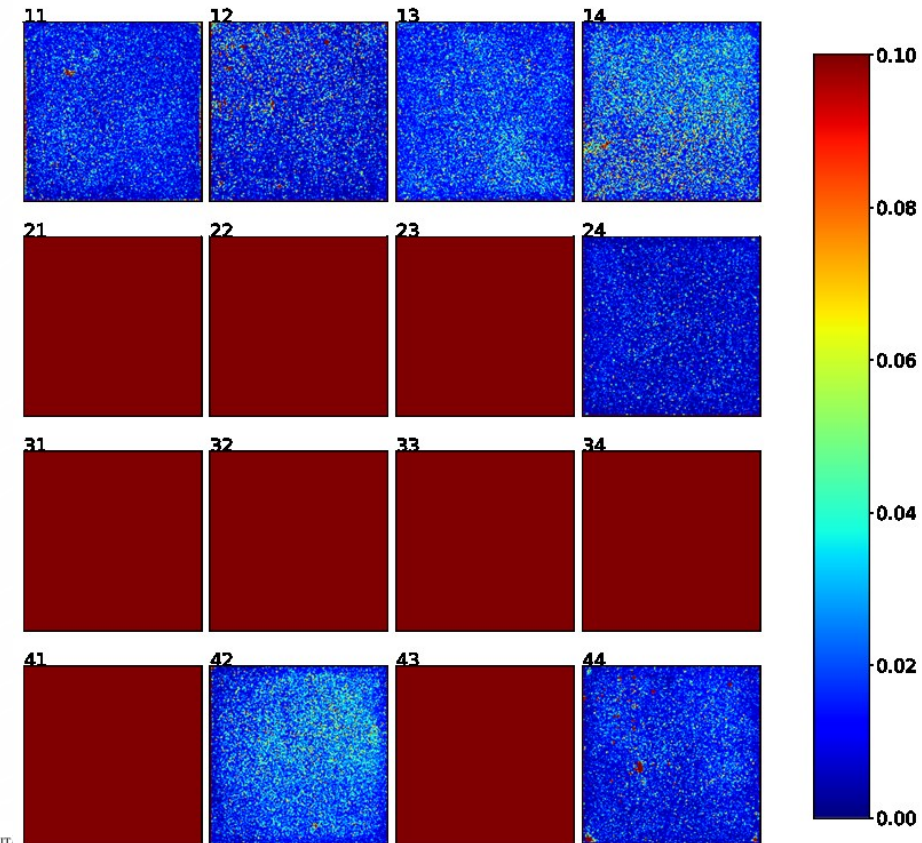


TV3 MACC(15,16,11)  
Time Average



# TV3 Spectroscopic Results

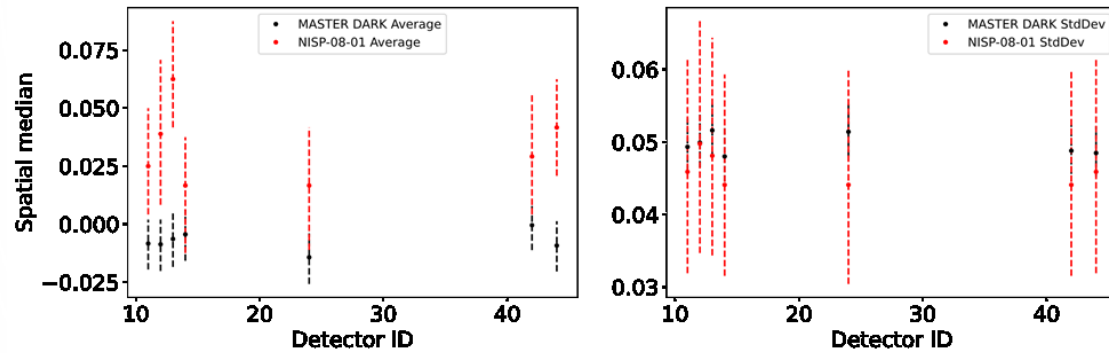
CSL MACC(15,16,11)  
Time Average



# Autocompatibility test results

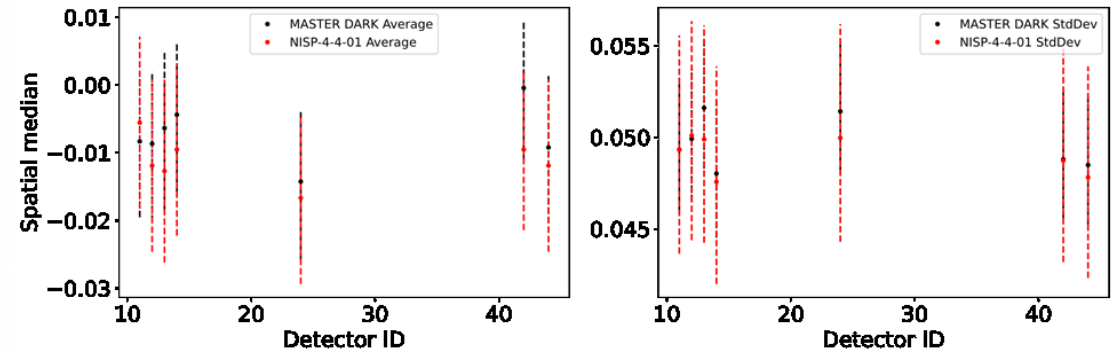
Payload Heater turned on

MASTER DARK vs NISP-08-01 - MACC (4,16,4)



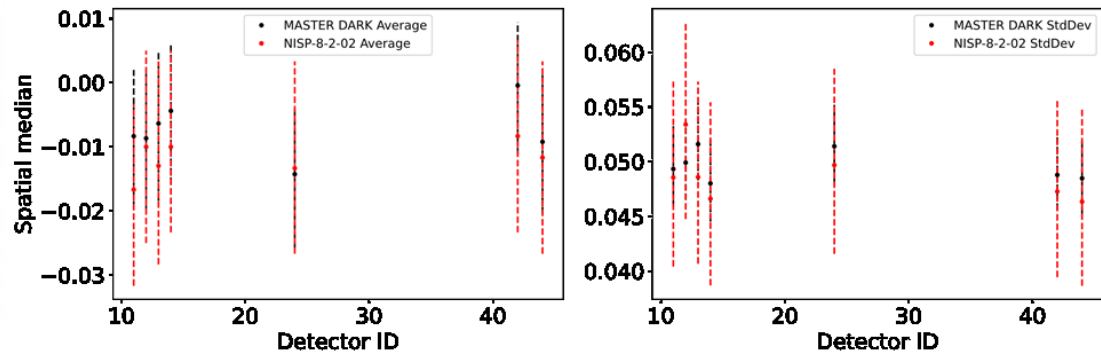
VIS Shutter in action

MASTER DARK vs NISP-4-4-01 - MACC (4,16,4)

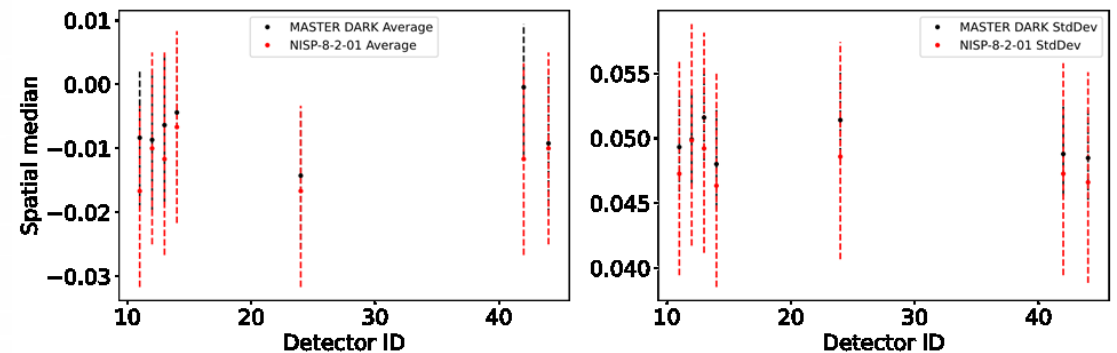


VIS Calibration Unit turned on

MASTER DARK vs NISP-8-2-02 - MACC (4,16,4)



MASTER DARK vs NISP-8-2-01 - MACC (4,16,4)



Groups involved:

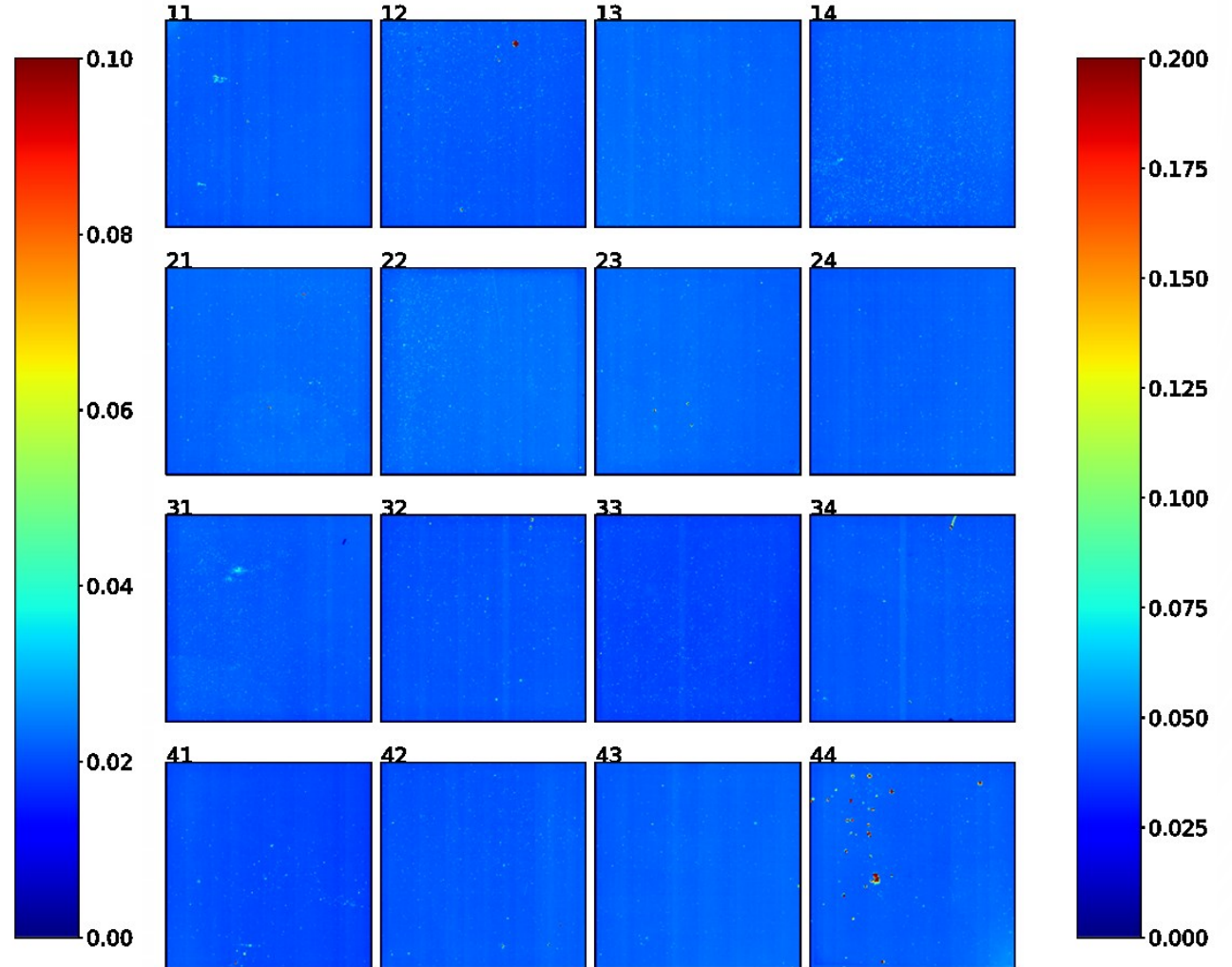
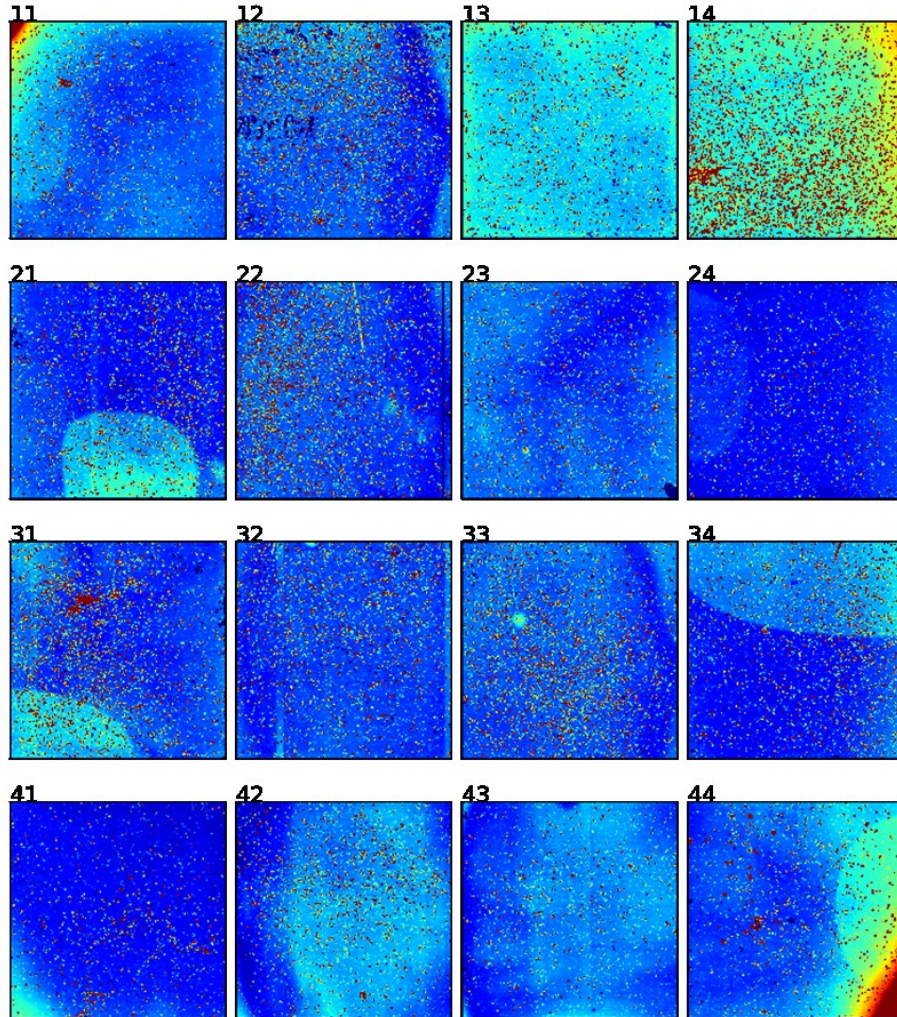
INFN Padova  
INFN Genova

# OU-SIM Simulations: Focal Plane

210 acquisitions  
MACC (4,16,4)

Time Average

Time Std Dev



# OU-SIM Simulations: Flux comparison

TIPS vs TV3 DARK - MACC (4,16,4)

