



**University of
Leicester**

Space Research Centre

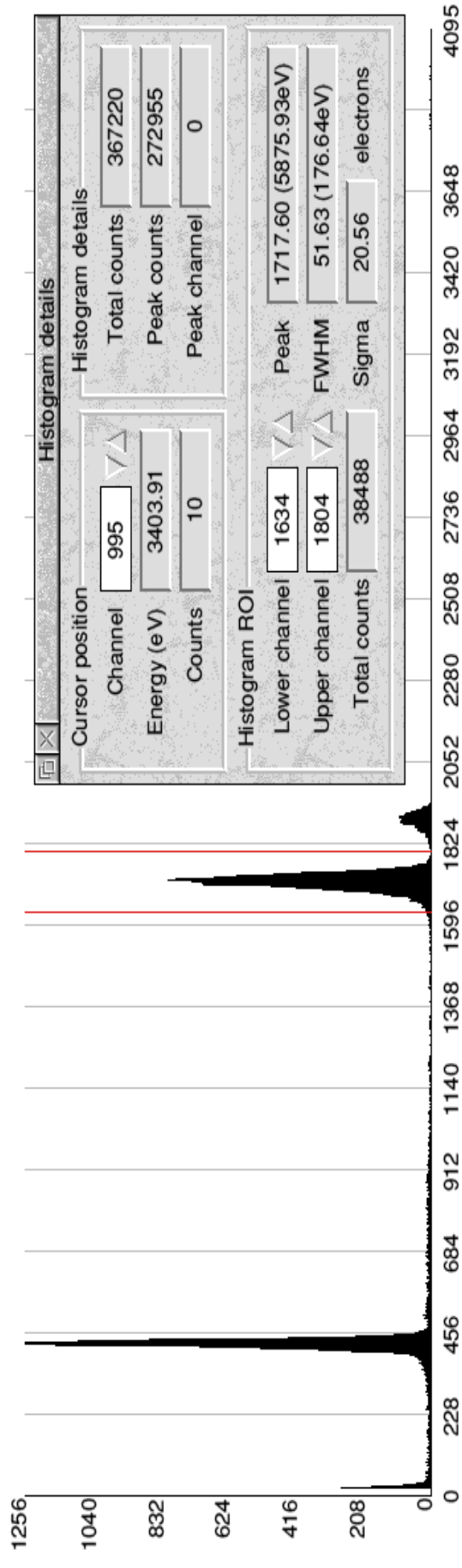
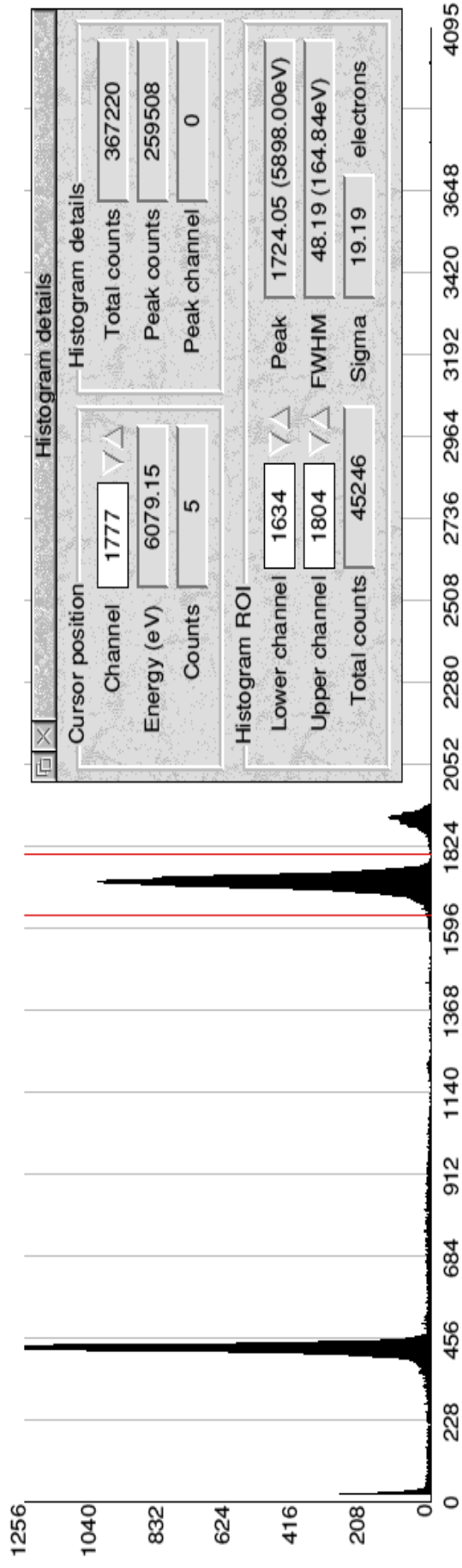
XMM EPIC Cal-Ops Meeting

6 June 2001

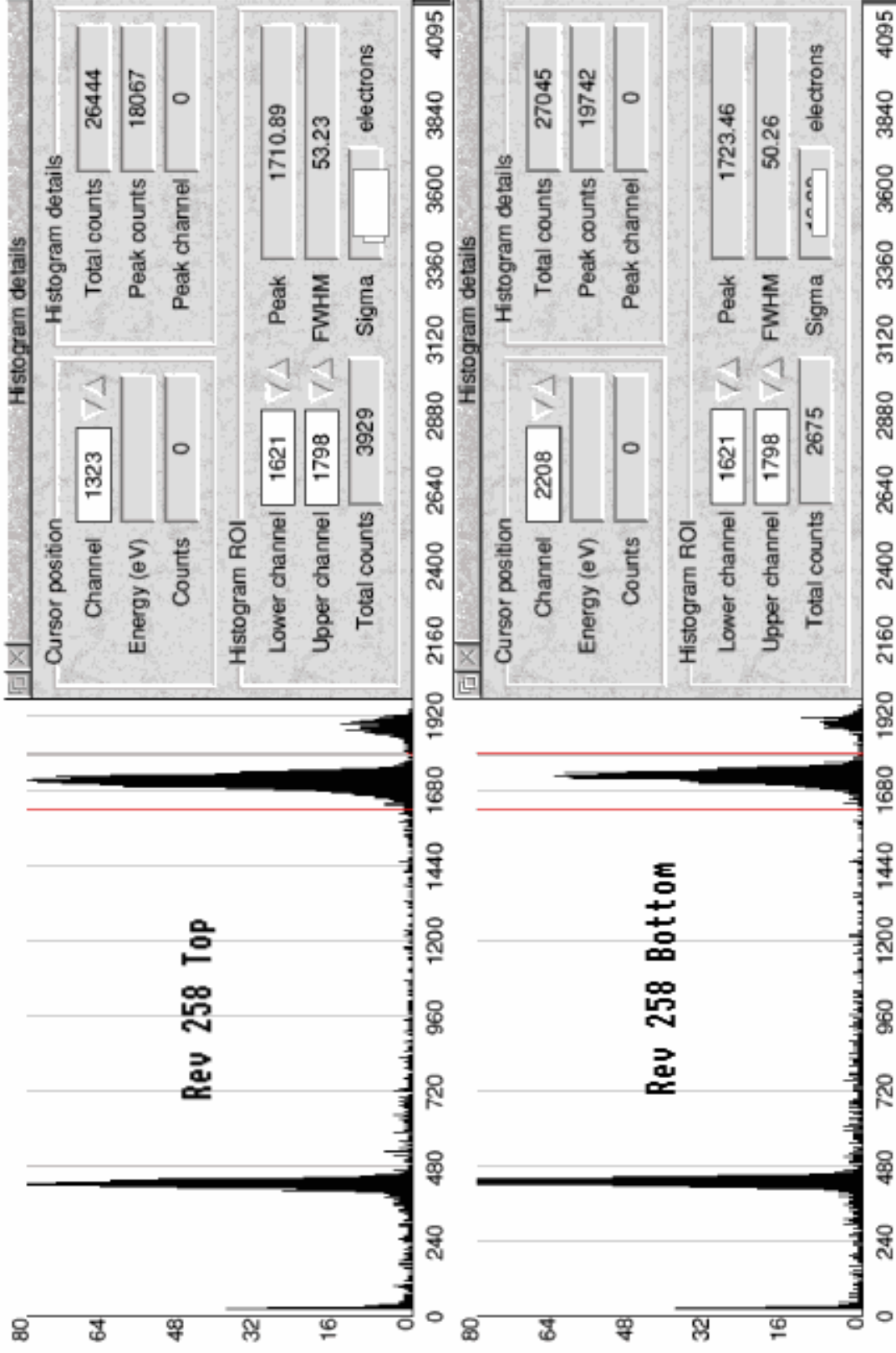
Cooling of CCDs and Charge
Injection

Tony Abbey - Leicester University

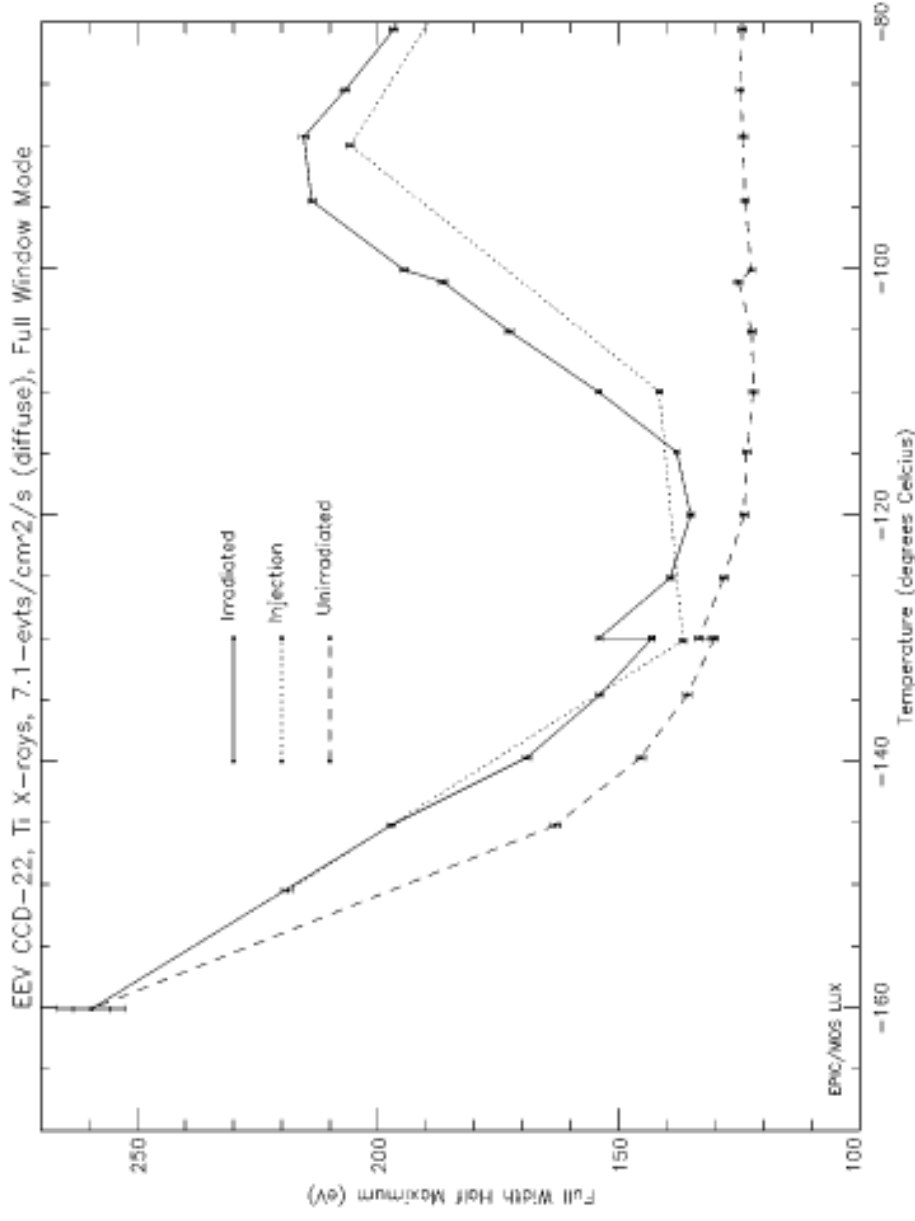
Comparison mono-pixel Mn ka FWHM closed cal full frame MOS2 CCD1 rev 55 to 258 using same 3.421 eV/ch cal



Comparison mono-pixel Mn ka FWHM closed cal full frame MOS2 CCD1 rev258 top and bottom of frame

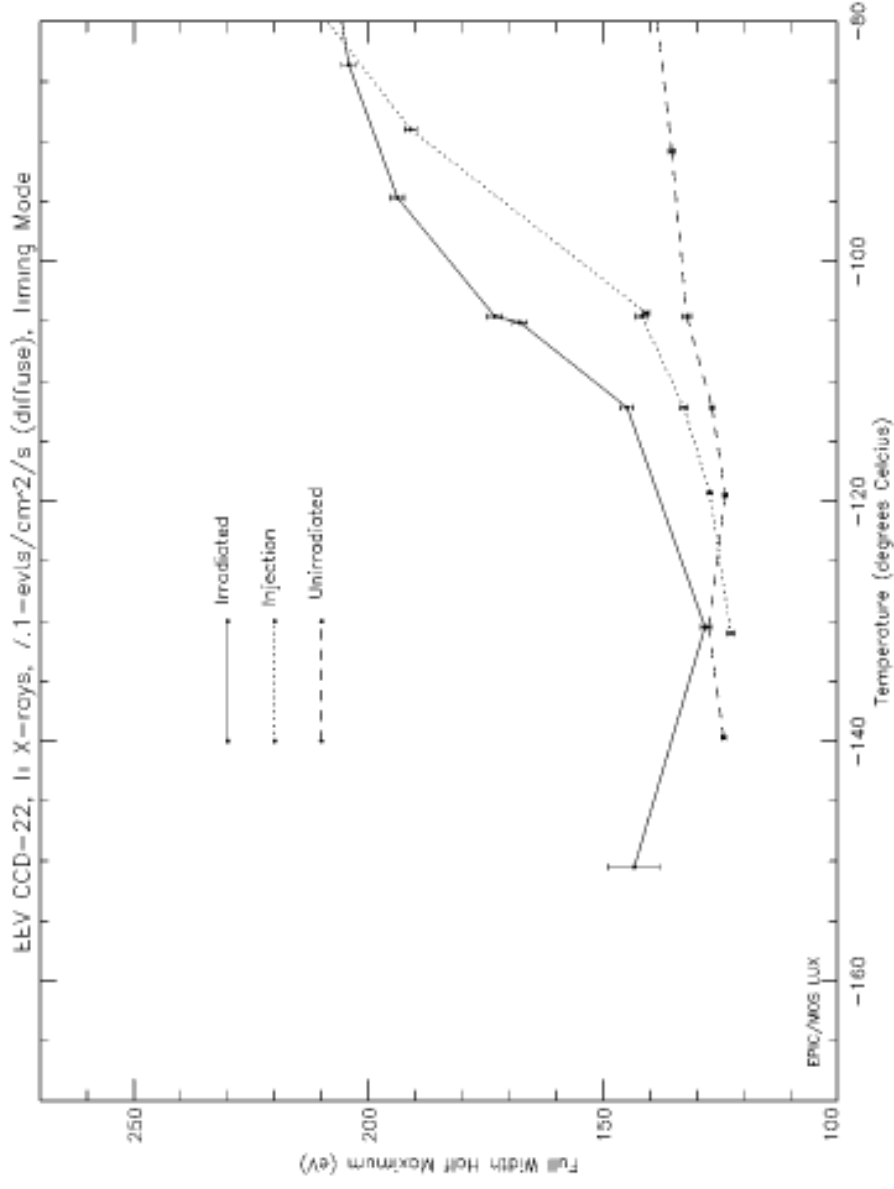


Effect of operating temperature and charge injection on CCD-22 in full frame mode



CCD resolution after proton damage (2.5E8 10MeV equivalent).

Effect of operating temperature and charge injection on CCD-22 in timing mode



CCD resolution after proton damage (2.5E8 10MeV equivalent).