















Grenoble	 A joint project involving D2AM/CRG-ESRF, Inst. NEEL CPPM-IN2P3, Sync. SOLEIL 			
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Marseille	 New analog a 	nd digital archit	ecture usir	ig 0.25 μm technolog
Centre de Physique des Particules de Marseille		XPAD2	XPAD3S	XPAD3C
oe marsenne	polarization	both	e^+ (Si)	e⁻ (Cd⊤e)
CPPM	pixel size	$330 \times 330 \mu m^2$	$130 \times 130 \mu m^2$ 10 × 15 mm ²	
St Aubin	chip size counting rate	$8 \times 10 mm^2$ $2.10^7 ph/s/pixel$	$\begin{array}{c} 10 \times 15 mm^2 \\ 2.10^6 ph/s/pixel (\equiv \text{count/surface}) \end{array}$	
SULEIL SYNCHROTRON	photons rate	$2.10^{\circ} ph/s/pixel$	2.10 $ph/s/pixel$ (\equiv count/surface) 2.10 ⁵ $ph/s/pixel$ (\equiv count/surface)	
	counters (bits)	16 + 16 ext	$12 + 16 ext$ (\equiv count/surface)	
	energy range	$(5)15 \rightarrow 25 keV$	$5 \rightarrow 32 keV$	
	energy edges	low level 5	low level	
CINER NURDALL SEA BOOM SEA MENTINGE	pixels/chip	$24 \times 25 = 600$	$80 \times 120 \approx 1.10^4$	
	pixels/module	$8 \times 600 \approx 5.10^3$	$\approx 7.10^{4}$	
	pixels/detector geometries	$\approx 4.10^4$ 8 × 8 or 2 × 5	$\approx 5.10^5$ 7 × 8 and	
	geometries	8 x 8 0r 2 x 5	r x 8 and	



































