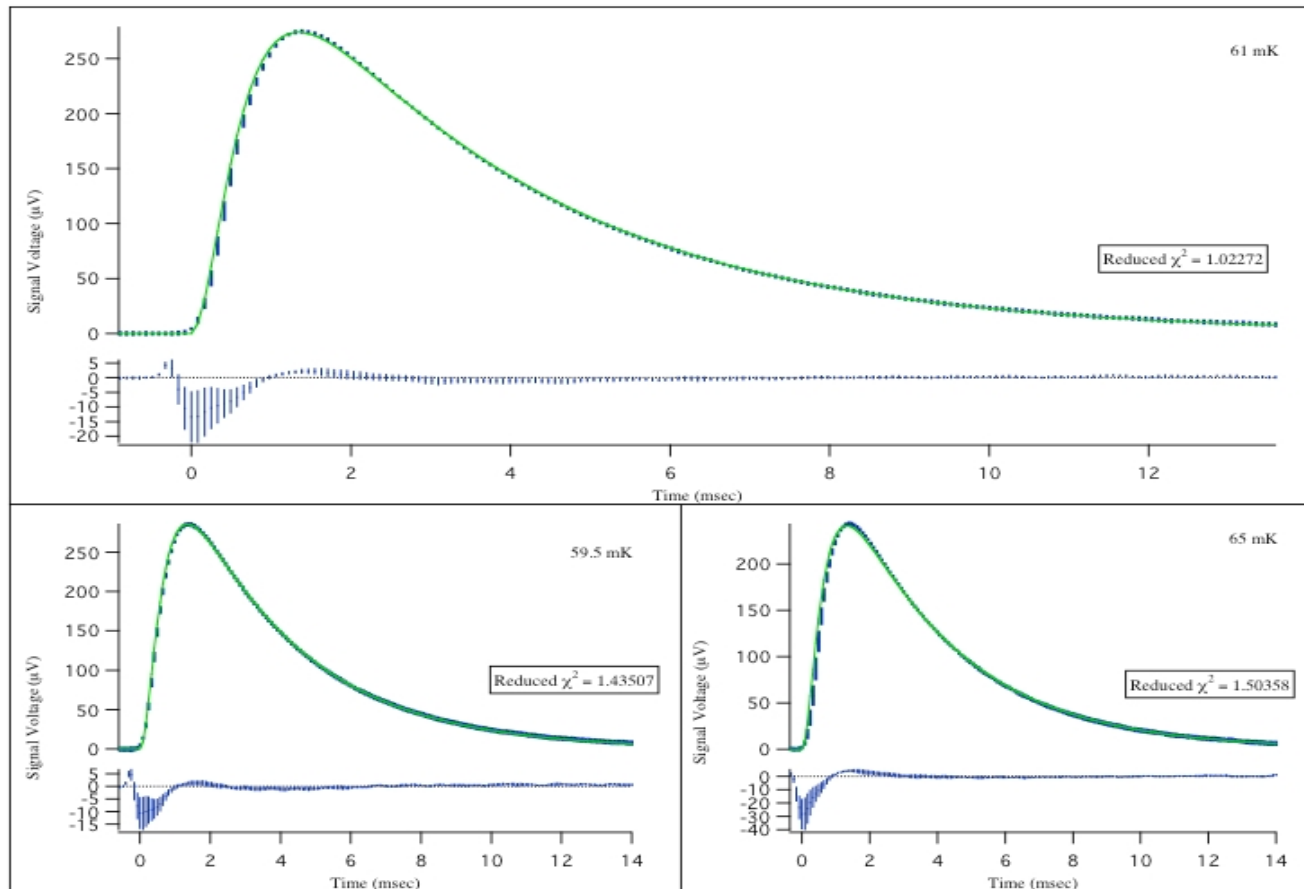


Table 1
 Calorimeter Parameter Values

Parameter name	Value	Description
$C_a^{(1)}$ (EJ/K) ^{†*}	61.095	C_a is absorber heat capacity
$C_a^{(3)}$ (EJ/K) ^{†*}	86.09	$C_a = C_a^{(1)}(T/T_1) + C_a^{(3)}(T/T_1)^3$, $T_1 = 100$ mK
$C_p^{(1)}$ (EJ/K) [†]	0	C_p is phonon heat capacity
$C_p^{(3)}$ (EJ/K) [†]	1	$C_p = C_p^{(1)}(T/T_1) + C_p^{(3)}(T/T_1)^3$
$C_e^{(1)}$ (EJ/K) [†]	81.56	C_e is electron heat capacity
γ_e (n/a)	0.62	$C_e = C_e^{(1)}(T/T_1)^{\gamma_e}$
$G_{ap}^{(1)}$ (pW/K) ^{†*}	123.665	Absorber-phonon thermal conductance
$G_{pb}^{(1)}$ (pW/K) ^{†*}	89.843	Phonon-bath thermal conductance
β_{ap} (n/a)	3	$G_{ap} = G_{ap}^{(1)}(T_a^{\beta_{ap}+1} - T_p^{\beta_{ap}+1})/(T_1^{\beta_{ap}}(\beta_{ap} + 1))$
β_{pb} (n/a)	2.882	$G_{pb} = G_{pb}^{(1)}(T_p^{\beta_{pb}+1} - T_b^{\beta_{pb}+1})/(T_1^{\beta_{pb}}(\beta_{pb} + 1))$
R_0 (Ω)	549.051	R_0 and T_0 are detector parameters
T_0 (K)	7.585	$R(T) = R_0 e^{\sqrt{T_0}/T}$
Volume (mm ³)	13.5×10^{-4}	Volume of thermistor

[†] Evaluated at $T_1 = 100$ mK.

* Varied to make fits.



Energy Scales in X-ray Microcalorimeters



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