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LIST OF SYMBOLS

A	-	Target mass number
C	-	Minimum of criterion function
D_e	-	Photographic density
E	-	Exposure of the film
E_t	-	Inelastic threshold
$f(x,y)$	-	Input image
$\hat{f}(x,y)$	-	Estimate of the original image
G	-	Slope in the linear portion of the characteristic response curve for the film
G_{offset}	-	Dark current
$g(x,y)$	-	Degraded image
H	-	Matrix
H	-	Degradation function
$H(u,v)$	-	Optical transfer function
$H^*(u,v)$	-	Complex conjugate of $H(u,v)$
$h(x,y)$	-	Spatial representation of the degradation function
I, ϕ	-	Transmitted intensity
I_o, ϕ_o	-	Incident intensity
N	-	Number of atoms per cubic centimeter
$P(u,v)$	-	Fourier transform of the function
$S_\eta(u,v)$	-	Power spectrum of the noise
$S_f(u,v)$	-	Power spectrum of the undegraded image
t	-	Thickness of specimen in the beam path
Σ_a	-	Macroscopic absorption cross section
Σ_i	-	Total macroscopic cross section

ε_1	-	Energy of the nucleus first excited state
$\eta(x,y)$	-	Noise term
σ	-	Neutron cross section of the particular material or isotope
σ	-	Standard deviation
μ_n	-	Linear attenuation coefficient for neutrons
μ_x	-	Linear attenuation coefficient for photons
*	-	convolution
∇^2	-	Laplacian operator

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