Key comparison CCRI(III)-K1

MEASURAND : 24.5 keV neutron fluence

x_i **:** measurement result obtained by laboratory *i* expressed as the mean ratio of measured instrument response by laboratory *i* to the reference instrument response

u_i **:** combined standard uncertainty of x_i

Lab *i*	x_i	u_i
VNIIM	**0.988**	0.013
CIAE	**0.998**	0.040
NIST	**0.816**	0.162
PTB	**1.029**	0.042
NPL	**1.024**	0.046

Key comparison CCRI(III)-K1

MEASURAND : 24.5 keV neutron fluence

Key comparison reference value: x_R is taken as 1

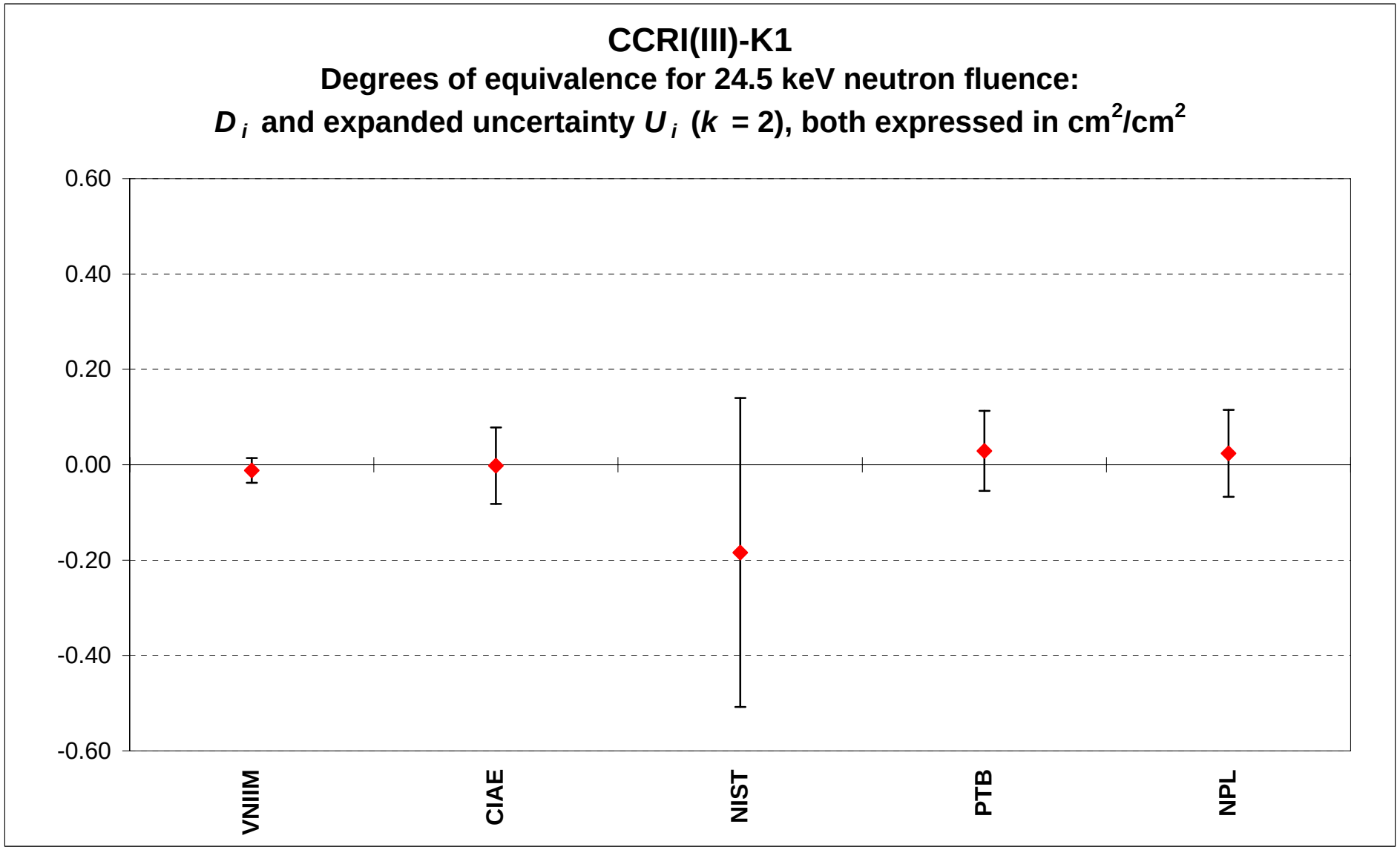
The degree of equivalence of each laboratory i with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_R)$ and U_i, its expanded uncertainty ($k = 2$), both expressed in cm^2/cm^2,
$U_i = 2u_i$.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij}, its expanded uncertainty ($k = 2$), expressed in cm^2/cm^2.
In evaluating $U_{ij} = 2u_{ij}$ for the table below account is taken of correlations between u_i and u_j
(see the Final Report).

Lab j ⇨

Lab i ⇩

	D_i / (cm^2/cm^2)	U_i / (cm^2/cm^2)	VNIIM		CIAE		NIST		PTB		NPL	
			D_{ij} / (cm^2/cm^2)	U_{ij} / (cm^2/cm^2)	D_{ij} / (cm^2/cm^2)	U_{ij} / (cm^2/cm^2)	D_{ij} / (cm^2/cm^2)	U_{ij} / (cm^2/cm^2)	D_{ij} / (cm^2/cm^2)	U_{ij} / (cm^2/cm^2)	D_{ij} / (cm^2/cm^2)	U_{ij} / (cm^2/cm^2)
VNIIM	**-0.012**	0.026			**-0.010**	0.093	**0.172**	0.328	**-0.041**	0.096	**-0.036**	0.102
CIAE	**-0.002**	0.080	**0.010**	0.093			**0.182**	0.337	**-0.031**	0.123	**-0.026**	0.127
NIST	**-0.184**	0.324	**-0.172**	0.328	**-0.182**	0.337			**-0.213**	0.337	**-0.208**	0.339
PTB	**0.029**	0.084	**0.041**	0.096	**0.031**	0.123	**0.213**	0.337			**0.006**	0.130
NPL	**0.024**	0.091	**0.036**	0.102	**0.026**	0.127	**0.208**	0.339	**-0.006**	0.130		


CCRI(III)-K1
Degrees of equivalence for 24.5 keV neutron fluence:
D_i and expanded uncertainty U_i (k = 2), both expressed in cm^2/cm^2
0.60
0.40
0.20
0.00
-0.20
-0.40
-0.60
VNIIM
CIAE
NIST
PTB
NPL