

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

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Your reference:

Your letter of:

My reference:

My letter of:

To all users of the
Beta Secondary Standard 2 (BSS2)

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Information for the users of the Beta Secondary Standard 2 (BSS2)

Dear Ladies and Gentlemen,
dear users of the Beta Secondary Standard 2 (BSS2),

We would like to inform you about an error in all calibration certificates for $^{90}\text{Sr}/^{90}\text{Y}$ sources issued between 2005 and 2008. In the annex C of these certificates the coefficients for the determination of the correction factor k_{abs} are given. For 30 cm without filter the value of the coefficient f_5 is erroneously stated as -1.151. The correct value shall be -1.511, as indicated in the following table:

Kalibrierabstand für die $^{90}\text{Sr}/^{90}\text{Y}$ Quelle	Koeffizienten der Transmissionsfunktion und ihre Standardabweichungen ($k = 1$)		
	f_3	f_4 m^2/kg	f_5 m^4/kg^2
mit Ausgleichsfilter 0,30 m	$0,632 \pm 0,004$	$1,386 \pm 0,019$	$-1,160 \pm 0,022$
ohne Ausgleichsfilter 0,11 m	$0,795 \pm 0,001$	$1,403 \pm 0,007$	$-1,715 \pm 0,016$
ohne Ausgleichsfilter 0,20 m	$0,673 \pm 0,002$	$1,571 \pm 0,010$	$-1,522 \pm 0,016$
ohne Ausgleichsfilter 0,30 m	$0,511 \pm 0,003$	$1,827 \pm 0,015$	$-1,151 \pm 0,017$ $-1,511 \pm 0,017$
ohne Ausgleichsfilter 0,50 m	$0,163 \pm 0,006$	$2,195 \pm 0,020$	$-1,360 \pm 0,016$

The same values are contained in the file "BetaFakt.ini" where no error occurred. That means, in case you are using the software accompanying the BSS2, the correction is properly done by the software.

We are sorry for any inconveniences.

Kind regards,
Dr. R. Behrens