European comparison of short gauge block measurement by interferometry

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Errata

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Page 79:

Comment from the Editor

The article by Dr Vaucher, Dr Thalmann and Mr Baechler in Metrologia Vol. 32(2) describes an anonymous comparison of gauge blocks. During preparation of the article for press a column of numbers was added to the alphabetic list of participating laboratories given in Table 1. These numbers can be read as identifying the laboratories taking part in the comparison, but in fact they do not. With the sole and obvious exception of the pilot laboratory, none of the numbers listed correspond to the laboratory identifying numbers shown elsewhere in the report. I apologize to all concerned for any embarrassment or awkwardness that this apparent identification may have caused.

D. A. Blackburn, Editor

The authors and the participants believe that in the present situation the comparison should no longer be anonymous, in particular with respect to those laboratories whose results appeared to be worse than they were in reality. Table 3 of the article, which summarizes all the results for the measurements of central length, is therefore published again, but with open identification of all participating laboratories. The meaning of the acronyms of the laboratories can be taken from Table 1 of the above-mentioned paper. It is the policy of EUROMET that the results of interlaboratory comparisons between national metrology institutes should always be published by identifying the participants. International comparisons are essential for the mutual recognition and represent an important proof of performance of a laboratory.

Table 3. Deviations from average measured central length in nanometres.

Gauge block length/mm	1	3	5	8	9	40	100
Laboratory	Deviation/nm						
OFMET	22	−10	0	−1	6	6	4
PTB	−1	−7	−7	−18	−4	2	30
ETCA	16	13	1	−7	8	23	−19
LNE	−20	−13	6	−17	−23	−10	18
OFMET	1	4	−7	0	−10	−2	−4
CMA	2	4	−1	1	15	−11	16
DFM	−1	9	5	14	15	10	12
OFMET	−4	−1	3	8	7	10	1
VSL	−31	−22	4	−3	−4	3	2
NPL	1	9	2	3	9	1	10
CEM	16	15	8	2	5	3	−44
IMGC	6	−2	−2	10	−8	−14	−6
SP	−18	−7	−15	0	−17	−11	−13
OFMET	10	8	4	5	2	−4	−13
St. dev.	14,8	10,3	6,4	9,1	11,5	10,2	18,5