

Interim policy on the publication of BIPM.RI(II)-K1 reports related to the recently identified rotation angle effect

At the CCRI(II) meeting in November 2025, C. Michotte (BIPM) presented a rotation angle effect identified in the SIR measurements and related to the angular position of the SIR ampoule holder. The effect on SIR measurements carried out since 2003 where the same angle ($\pm 45^\circ$) was used should be negligible, except for beta-emitters with beta end-point energies above 2.5 MeV. However older SIR results for some low-energy photon-emitters and consequently the corresponding KCRVs may have been impacted. Investigations at the BIPM are in progress.

Because comparison results are needed to support CMCs, the CCRI(II) took the interim decision to progress with the publication of the usual SIR reports (except for $^{106}\text{Ru/Rh}$ and $^{144}\text{Ce/Pr}$ and any other similar radionuclide) with the only change of including a hyperlink to the present document, for transparency.

When the rotation angle effect of the SIR will be better characterized, actions may be decided like an update of the SIR uncertainty budget and/or updates of KCRVs, as appropriate.