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Worldwide Comparability in Measurement

Accurate, comparable measurement results depend on globally agreed units of measurement, the realisation of these “primary” units and the establishment of common references traceable to the primary units. The Metre Convention (Convention du Mètre) of 1875 is the basis for international agreement on units of measurement and created the International Bureau of Weights and Measures (BIPM), an intergovernmental organisation under the authority of the General Conference on Weights and Measures (CGPM) and the supervision of the International Committee for Weights and Measures (CIPM).

The CIPM Mutual Recognition Arrangement (CIPM MRA) is the framework through which National Metrology Institutes (NMIs) demonstrate the international equivalence of their measurement standards and the calibration and measurement certificates they issue.

Within this context the role of NMISA and iThemba LABS in creating a common reference for medium and high energy neutron measurements, is explained.

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