

## 2022 年 CGPM 大会关于 SI 新词头的决议

### Resolution 3

#### On the extension of the range of SI prefixes

The General Conference on Weights and Measures (CGPM), at its 27th meeting,

**recalling** that decisions were made at previous meetings when it was considered timely to extend the range of SI prefixes including Resolution 12 (paragraph 3) adopted by the CGPM at its 11th meeting (1960), Resolution 8 adopted by the CGPM at its 12th meeting (1964), Resolution 10 adopted by the CGPM at its 15th meeting (1975), and Resolution 4 adopted by the CGPM at its 19th meeting (1991),

**considering**

- the essential role of the International System of Units (SI) in providing confidence in the accuracy and global comparability of measurements needed for international trade, manufacturing, human health and safety, protection of the environment, global climate studies and scientific research,
- the benefits of encouraging the use of SI units by providing new SI prefixes for scientific communities that depend on measurements that are not covered by the current range,
- the needs of data science in the near future to express quantities of digital information using orders of magnitude in excess of  $10^{24}$ ,
- the importance of timely action to prevent unofficial prefix names being *de facto* adopted in other communities,

**decides** to add to the list of SI prefixes to be used for multiples and submultiples of units the following prefixes:

Multiplying factor	Name	Symbol
$10^{27}$	ronna	R
$10^{-27}$	ronto	r
$10^{30}$	quetta	Q
$10^{-30}$	quecto	q