

The summary of base units.

1 m² is equal to 1 m² . One wavelength is equal only to the same one wavelength. There is no meaning to ask for more information. How long is the one wavelength absolutely? Where is the point of view? All physical values are only and only ratios among individual states and processes in the universe.

From previous chapter about base units we know the following results :

1 second is equal to 9 192 631 770 period of Cs¹³³.

1 meter is approximately equal to 30,66 period of Cs¹³³.

1 kg is approximately equal to 6,8 x 10⁴¹ times of 1 period Cs¹³³.

A kilogram must have a dimension, it cannot be dimensionless. There is a big difference between two equal weights of 10 kg/m³ and 10 kg/0,01m³ .That brings us to density. See another chapter about the density.

What did we find out? Each base unit has a spatial dimension. 1 second has a spatial dimension, the same as 1 meter. But even one kilogram has a spatial dimension. So is energy. Without a spatial dimension, there are no units. In addition, what is the absolute length of the selected spatial dimension (see for example x period of radiation of the Cesium atom)? We can't determine the absolute length, we have no use! We have no co-ordinated system other than our universe with lots of different wavelengths, with different changes of quantum fields or expressions of zero oscillations of vacuum. So all we can determine is the relative value, the difference between two or more wavelengths. We're more or less in the situation of a man whose home is an enormous elephant. I mean a live elephant that changes (all its organs). In other words, this elephant grows from an early age to adulthood and also ages. At an early age, a man inhabiting an elephant figures out how to measure the size of his home. He takes as his base unit a suitably recognizable section of elephant. Like some length of a vertebrae of the spine. The base unit is chosen and can be measured with the other dimensions of the elephant. After a certain amount of time, the elephant is measured and I have an idea of its size. I add about its size due to one part of it, which also changes as time goes on! Here you can clearly see the nonsense of asking what is the absolute size of the vertebrae of the elephant spine.