

# Oxx7 observed dimension (was observed in)

Domain:

S21 Measurement

Range:

E54 Dimension

Superproperty of:

E16 Measurement. P40 has dimension (is dimension of): E54 Dimension

Quantification:

one to one, necessary (1,1:0,1)

Scope note:

This property records the dimension of an instance of S15 Observable Entity or a specific constellation of such instances that was observed in an instance of S21 Measurement. The observed items should be documented using the property O24 measured (was measured by).

One measurement activity may determine only one dimension of an instance of S15 Observable Entity or a specific constellation of such instances. Such a dimension may be any observable and quantifiable aspect of the latter. Weight, length, spatial or temporal distances are characteristic kinds of dimensions in this sense.

A dimension of one or more instances of S15 Observable Entity may be determined either by direct observation or using recorded evidence. However, determination by measuring requires the presence of the measured items. Other methods may constitute other kinds of instances of **I1 Argumentation**.

Even though knowledge of the value of a dimension requires measurement, the dimension may be an object of discourse prior to, or even without, any measurement being made.

Examples:

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In First Order Logic:

$Oxx7(x,y) \Rightarrow S21(x)$

$Oxx7(x,y) \Rightarrow E54(y)$

Link to diagram [here](#)