Dear All,

Looking at the historical examples for the properties of E93, I propose the following renaming of P164 and P167, because is makes not clear that a) P164 is the timespan considered, rather tan the observed, and P167 is an outer bound, whereas the new Pxxx is the inner bound.

See:

### E93 Presence

Subclass of: [E92](#_E92_Spacetime_Volume) Spacetime Volume

Scope note: This class comprises instances of E92 Spacetime Volume, whose temporal extent has been chosen in order to determine the spatial extent of a phenomenon over the chosen time-span. Respective phenomena may, for instance, be historical events or periods, but can also be the diachronic extent and existence of physical things. In other words, instances of this class fix a slice of another instance of E92 Spacetime Volume in time.

The temporal extent of an instance of E93 Presence typically is predetermined by the researcher so as to focus the investigation particularly on finding the spatial extent of the phenomenon by testing for its characteristic features. There are at least two basic directions such investigations might take. The investigation may wish to determine where something was during some time or it may wish to reconstruct the total passage of a phenomenon’s spacetime volume through an examination of discrete presences. Observation and measurement of features indicating the presence or absence of a phenomenon in some space allows for the progressive approximation of spatial extents through argumentation typically based on inclusion, exclusion and various overlaps.

In First Order Logic:

 E93(x) ⊃ E92(x)

Properties:

[P166](#_P166_was_a) was a presence of (had presence): [E92](#_E91_Co-Reference_Assignment) Space Time Volume

[P195](#_P195_was_a) was a presence of (had presence): E18 Physical Thing

[P164](#_P164_(Px9)_is) during (was time-span of): [E52](#_E52_Time-Span) Time Span

[P167](#_P167_was_at) at (was place of): [E53](#_E53_Place) Place

Pxxx covered parts of (was partially covered by)

**Historical Examples in Context with current labels:**

**A)**

**E93:**

Johann JoachimWinckelmann’s presence in December 1755

**P195:**

Johann JoachimWinckelmann’s presence in December 1755 *P195 a presence of* Johann JoachimWinckelmann (E21)

**P164:**

Johann JoachimWinckelmann’s presence in December 1755 *during* December 1755 (E52)

**P167:**

Johann JoachimWinckelmann’s presence in December 1755 *at* Rome (E53)

**B)**

**E93:**

Johann JoachimWinckelmann’s presence from Nov. 19 1755 until April 9 1768

**P195:**

Johann JoachimWinckelmann’s presence from Nov. 19 1755 until April 9 1768 *was a presence of* Johann JoachimWinckelmann (E21)

**P164:**

Johann JoachimWinckelmann’s presence from Nov. 19 1755 until April 9 1978 *during* Nov. 19 1755 until April 9 1768 (E52)

**P167:**

Johann JoachimWinckelmann’s presence from Nov. 19 1755 until April 9 1968 *at* Italy

**Pxxx:**

Johann Joachim Winckelmann’s presence from Nov. 19 1755 until April 9 1968 *Pxxx covered parts of* Florence, Italy

**Pxxx:**

Johann Joachim Winckelmann’s presence from Nov. 19 1755 until April 9 1968 *Pxxx covered parts of* Paestum, Italy

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**Historical Examples in Context with new labels:**

**A)**

**E93:**

Johann JoachimWinckelmann’s presence in December 1755

**P195:**

Johann JoachimWinckelmann’s presence in December 1755 *was a presence of* Johann JoachimWinckelmann (E21)

**P164:**

Johann JoachimWinckelmann’s presence in December 1755 *concerns* December 1755 (E52)

**P167:**

Johann JoachimWinckelmann’s presence in December 1755 *was within* Rome (E53)

**B)**

**E93:**

Johann JoachimWinckelmann’s presence from Nov. 19 1755 until April 9 1768

**P195:**

Johann JoachimWinckelmann’s presence from Nov. 19 1755 until April 9 1768 *was a presence of* Johann JoachimWinckelmann (E21)

**P164:**

Johann JoachimWinckelmann’s presence from Nov. 19 1755 until April 9 1978 *concerns* Nov. 19 1755 until April 9 1768 (E52)

**P167:**

Johann JoachimWinckelmann’s presence from Nov. 19 1755 until April 9 1968 *was within* Italy

**Pxxx:**

Johann Joachim Winckelmann’s presence from Nov. 19 1755 until April 9 1968 *Pxxx covered parts of* Florence, Italy

**Pxxx:**

Johann Joachim Winckelmann’s presence from Nov. 19 1755 until April 9 1968 *Pxxx covered parts of* Paestum, Italy

**In summary:**

**Rename:** P164 during (was time-span of): E52 Time Span

 **To:** P164 concerns (is concern of): E52 Time Span

**Rename:** P167 at (was place of): E53 Place

 **To:** P167 was within (include): E53 Place

**I believe this is MUCH more comprehensible.**

**See also:**

### Pxxx covered parts of (was partially covered by)

Domain: [E93](#_E93_Spacetime_Snapshot) Presence

Range: [E53](#_E53_Place) Place

Quantification:

Scope note: This property associates an instance of E93 Presence with an instance of E53 Place that geometrically overlaps with the spatial projection of the respective instance of E93 Presence. Besides others, this property may be used to state through which places an object or an instance of E21 Person has or was moved within a given time-span. It may also be used to describe a partial or complete, temporary or permanent extension of the spatial extent of some realm into a neighboring region during a known time-span. It is a shortcut of the more fully developed path from E93 Presence through *P161 has spatial projection*, E53 Place, *P121 overlaps with* to E53 Place.

In First Order Logic:

 P167(x,y) ⊃ E93(x)

P167(x,y) ⊃ E53(y)

P167(x,y) ⊃ (∃z)[ E53(z) ∧ P161(x,z) ∧ P121(z,y)]

Examples:

Johann Joachim Winckelmann’s presence from Nov. 19 1755 until April 9 1968 *Pxxx covered parts of* Florence, Italy

Johann Joachim Winckelmann’s presence from Nov. 19 1755 until April 9 1968 *Pxxx covered parts of* Paestum, Italy

The Byzantine Empire 1013AD *Pxxx covered parts of* The Italian Peninsula