Description logic view: DOLCE-Perdurants

Classes

abstract

abstract ⊑ ∀ has-quality ¬temporal-location_q
abstract ⊑ particular
abstract ⊑ ∀ has-quality ¬spatial-location_q
abstract ⊑ ¬ perdurant
abstract ⊑ ¬ quality

abstract-quality

abstract-quality ⊑ quality
abstract-quality ⊑ ∀ q-location abstract-region
abstract-quality ⊑ ∀ has-quality abstract-quality
abstract-quality ⊑ ¬ physical-quality
abstract-quality ⊑ ¬ temporal-quality

abstract-region

abstract-region ⊑ ∀ part abstract-region
abstract-region ⊑ ∀ q-location-of abstract-quality
abstract-region ⊑ region
abstract-region ⊑ ¬ temporal-region
abstract-region ⊑ ¬ physical-region

accomplishment

accomplishment ⊑ event

achievement

achievement ⊑ event

event

event ⊑ perdurant

particular

perdurant

perdurant ⊑ spatio-temporal-particular
perdurant ⊑ ∀ has-quality temporal-quality
perdurant ⊑ ∀ specific-constant-constituent perdurant
perdurant ⊑ ∀ part perdurant
perdurant ⊑ ∃ has-quality temporal-location_q

perdurant ⊑ ¬ abstract
perdurant ⊑ ¬ quality

physical-quality

physical-quality ⊑ quality
physical-quality ⊑ ∀ has-quality physical-quality
physical-quality ⊑ ∀ q-location physical-region
physical-quality ⊑ ¬ abstract-quality
physical-quality ⊑ ¬ temporal-quality

physical-region

physical-region ⊑ region
physical-region ⊑ ∀ part physical-region
physical-region ⊑ ∀ q-location-of physical-quality
physical-region ⊑ ¬ temporal-region
physical-region ⊑ ¬ abstract-region

process

process ⊑ stative

proposition

proposition ⊑ abstract

quale

quale ≡ region ⊓ ∃ atomic-part-of region

quality

quality ⊑ spatio-temporal-particular
quality ⊑ ∃ inherent-in particular
quality ⊑ ¬ abstract
quality ⊑ ¬ perdurant

quality-space

quality-space ≡ region ⊓ ∀ overlaps ¬quality-space

region

region ⊑ ∀ part region
region ⊑ abstract

set

set ⊑ abstract

space-region

space-region ⊑ ∀ q-location-of spatial-location_q
space-region ⊑ ∀ part space-region
space-region ⊑ physical-region

spatial-location_q

spatial-location_q ⊑ physical-quality

spatio-temporal-particular

spatio-temporal-particular ≡ particular ⊓ perdurant ⊔ quality

spatio-temporal-region

spatio-temporal-region ⊑ space-region

state

state ⊑ stative

stative

stative ⊑ perdurant

temporal-location_q

temporal-location_q ⊑ temporal-quality

temporal-quality

temporal-quality ⊑ ∀ has-quality temporal-quality
temporal-quality ⊑ quality
temporal-quality ⊑ ∃ inherent-in perdurant
temporal-quality ⊑ ∀ q-location temporal-region
temporal-quality ⊑ ¬ abstract-quality
temporal-quality ⊑ ¬ physical-quality

temporal-region

temporal-region ⊑ ∀ q-location-of temporal-quality
temporal-region ⊑ ∀ part temporal-region
temporal-region ⊑ region
temporal-region ⊑ ¬ physical-region

temporal-region ⊑ ¬ abstract-region

time-interval

time-interval ⊑ temporal-region

Object properties

abstract-location

⊑ exact-location
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlabstract-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.
location-of¿⁻
⊤ ⊑ ∀ abstract-location abstract-region

abstract-location-of

⊑ exact-location-of
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlabstract-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.
location-of¿⁻
∃ abstract-location-of Thing ⊑ abstract-region

atomic-part

⊑ part
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlatomic-part¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlat
part-of¿⁻
∃ atomic-part Thing ⊑ particular
⊤ ⊑ ∀ atomic-part particular

atomic-part-of

⊑ part-of
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlatomic-part¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlat
part-of¿⁻
∃ atomic-part-of Thing ⊑ particular
⊤ ⊑ ∀ atomic-part-of particular

boundary

⊑ proper-part
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlboundary¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlbou
of¿⁻
∃ boundary Thing ⊑ particular
⊤ ⊑ ∀ boundary particular

boundary-of

⊑ proper-part-of
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlboundary¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlbou
of¿⁻
∃ boundary-of Thing ⊑ particular
⊤ ⊑ ∀ boundary-of particular

constant-participant

⊑ participant
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlconstant-participant-in¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE
participant¿⁻
∃ constant-participant Thing ⊑ perdurant

constant-participant-in

⊑ participant-in
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlconstant-participant-in¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE
participant¿⁻
⊤ ⊑ ∀ constant-participant-in perdurant

exact-location

⊑ generic-location
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlexact-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.ow
location-of¿⁻
∃ exact-location Thing ⊑ particular
⊤ ⊑ ∀ exact-location region

exact-location-of

⊑ generic-location-of
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlexact-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.ow
location-of¿⁻
∃ exact-location-of Thing ⊑ region
⊤ ⊑ ∀ exact-location-of particular

generic-constituent

⊑ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlgeneric-constituent-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-
constituent¿⁻
∃ generic-constituent Thing ⊑ particular
⊤ ⊑ ∀ generic-constituent particular

generic-constituent-of

⊑ immediate-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlgeneric-constituent-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-
constituent¿⁻
∃ generic-constituent-of Thing ⊑ particular
⊤ ⊑ ∀ generic-constituent-of particular

generic-dependent

⊑ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlgeneric-dependent¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite
dependent-on¿⁻
∃ generic-dependent Thing ⊑ particular
⊤ ⊑ ∀ generic-dependent particular

generic-location

⊑ mediated-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlgeneric-location-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lit
location¿⁻
∃ generic-location Thing ⊑ particular
⊤ ⊑ ∀ generic-location particular

generic-location-of

⊑ mediated-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlgeneric-location-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lit
location¿⁻
∃ generic-location-of Thing ⊑ particular
⊤ ⊑ ∀ generic-location-of particular

generically-dependent-on

⊑ immediate-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlgeneric-dependent¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite
dependent-on¿⁻
∃ generically-dependent-on Thing ⊑ particular
⊤ ⊑ ∀ generically-dependent-on particular

has-quale

⊑ q-location
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhas-quale¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlqu
of¿⁻
∃ has-quale Thing ⊑ quality
⊤ ⊑ ∀ has-quale quale

has-quality

⊑ immediate-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlinherent-in¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlha
∃ has-quality Thing ⊑ particular
⊤ ⊑ ∀ has-quality quality

has-t-quality

⊑ has-quality
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlt-inherent-in¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlh
t-quality¿⁻
∃ has-t-quality Thing ⊑ particular
⊤ ⊑ ∀ has-t-quality quality

host

⊑ specifically-constantly-dependent-on
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhost-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhost¿⁻

host-of

⊑ specific-constant-dependent
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhost-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhost¿⁻

identity-c

⊑ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlidentity-c¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owliden
c¿⁻
TransitivePropertyidentity-c
∃ identity-c Thing ⊑ particular
⊤ ⊑ ∀ identity-c particular

identity-n

⊑ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlidentity-n¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owliden
n¿⁻
TransitivePropertyidentity-n
∃ identity-n Thing ⊑ particular
⊤ ⊑ ∀ identity-n particular

immediate-relation

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlimmediate-relation-i¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-L
relation¿⁻
∃ immediate-relation Thing ⊑ particular

$\top \sqsubseteq \forall$ immediate-relation particular

immediate-relation-i

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlimmediate-relation-i¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-L... relation¿$^-$
$\exists$ immediate-relation-i Thing $\sqsubseteq$ particular
$\top \sqsubseteq \forall$ immediate-relation-i particular

inherent-in

$\sqsubseteq$ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlinherent-in¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlha...
$\exists$ inherent-in Thing $\sqsubseteq$ quality
$\top \sqsubseteq \forall$ inherent-in particular

life

$\sqsubseteq$ constant-participant-in
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owllife¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owllife-of¿$^-$
$\top \sqsubseteq \forall$ life perdurant

life-of

$\sqsubseteq$ constant-participant
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owllife¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owllife-of¿$^-$
$\exists$ life-of Thing $\sqsubseteq$ perdurant

mediated-relation

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlmediated-relation-i¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lit... relation¿$^-$
$\exists$ mediated-relation Thing $\sqsubseteq$ particular
$\top \sqsubseteq \forall$ mediated-relation particular

mediated-relation-i

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlmediated-relation-i¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lit... relation¿$^-$
$\exists$ mediated-relation-i Thing $\sqsubseteq$ particular
$\top \sqsubseteq \forall$ mediated-relation-i particular

mereologically-coincides

$\sqsubseteq$ temporary-part
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlmereologically-coincides¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLC... Lite.owlmereologically-coincides¿$^-$

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overlaps

$\sqsubseteq$ mediated-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owloverlaps¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owloverl
$\exists$ overlaps Thing $\sqsubseteq$ particular
$\top \sqsubseteq \forall$ overlaps particular

part

$\sqsubseteq$ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpart-of¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpart¿‾
TransitivePropertypart
$\exists$ part Thing $\sqsubseteq$ particular
$\top \sqsubseteq \forall$ part particular

part-of

$\sqsubseteq$ immediate-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpart-of¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpart¿‾
TransitivePropertypart-of
$\exists$ part-of Thing $\sqsubseteq$ particular
$\top \sqsubseteq \forall$ part-of particular

participant

$\sqsubseteq$ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlparticipant¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpa
in¿‾
$\exists$ participant Thing $\sqsubseteq$ perdurant

participant-in

$\sqsubseteq$ immediate-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlparticipant¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpa
in¿‾
$\top \sqsubseteq \forall$ participant-in perdurant

partly-compresent

$\sqsubseteq$ mediated-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpartly-compresent¿ $\equiv$ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite
compresent¿‾
$\exists$ partly-compresent Thing $\sqsubseteq$ particular
$\top \sqsubseteq \forall$ partly-compresent particular

physical-location

$\sqsubseteq$ exact-location

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlphysical-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.
location-of¿⁻

⊤ ⊑ ∀ physical-location physical-region

physical-location-of

⊑ exact-location-of

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlphysical-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.
location-of¿⁻

∃ physical-location-of Thing ⊑ physical-region

proper-part

⊑ part

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlproper-part¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpr
part-of¿⁻

TransitivePropertyproper-part

∃ proper-part Thing ⊑ particular

⊤ ⊑ ∀ proper-part particular

proper-part-of

⊑ part-of

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlproper-part¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpr
part-of¿⁻

TransitivePropertyproper-part-of

∃ proper-part-of Thing ⊑ particular

⊤ ⊑ ∀ proper-part-of particular

q-location

⊑ immediate-relation

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlq-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlq-lc
of¿⁻

∃ q-location Thing ⊑ quality

⊤ ⊑ ∀ q-location region

q-location-of

⊑ immediate-relation-i

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlq-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlq-lc
of¿⁻

∃ q-location-of Thing ⊑ region

⊤ ⊑ ∀ q-location-of quality

q-present-at

⊑ mediated-relation

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltime-of-q-presence-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-L
present-at¿⁻
∃ q-present-at Thing ⊑ physical-quality
⊤ ⊑ ∀ q-present-at time-interval

quale-of

⊑ q-location-of
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhas-quale¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlqu
of¿⁻
∃ quale-of Thing ⊑ quale
⊤ ⊑ ∀ quale-of quality

r-location

⊑ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlr-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlr-lo
of¿⁻
∃ r-location Thing ⊑ region
⊤ ⊑ ∀ r-location region

r-location-of

⊑ immediate-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlr-location¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlr-lo
of¿⁻
∃ r-location-of Thing ⊑ region
⊤ ⊑ ∀ r-location-of region

sibling-part

⊑ mediated-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlsibling-part¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlsi
part¿⁻
∃ sibling-part Thing ⊑ particular
⊤ ⊑ ∀ sibling-part particular

spatio-temporal-presence-of

⊑ exact-location-of
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspatio-temporal-presence-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DO
Lite.owlspatio-temporally-present-at¿⁻
∃ spatio-temporal-presence-of Thing ⊑ spatio-temporal-region
⊤ ⊑ ∀ spatio-temporal-presence-of particular

spatio-temporally-present-at

⊑ exact-location

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspatio-temporal-presence-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DO
Lite.owlspatio-temporally-present-at¿⁻
∃ spatio-temporally-present-at Thing ⊑ particular
⊤ ⊑ ∀ spatio-temporally-present-at spatio-temporal-region

specific-constant-constituent

⊑ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-constituent¿ ≡ ¡http://www.loa-cnr.it/ontologies/D
Lite.owlspecific-constant-constituent-of¿⁻
∃ specific-constant-constituent Thing ⊑ particular
⊤ ⊑ ∀ specific-constant-constituent particular

specific-constant-constituent-of

⊑ immediate-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-constituent¿ ≡ ¡http://www.loa-cnr.it/ontologies/D
Lite.owlspecific-constant-constituent-of¿⁻
∃ specific-constant-constituent-of Thing ⊑ particular
⊤ ⊑ ∀ specific-constant-constituent-of particular

specific-constant-dependent

⊑ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-dependent¿ ≡ ¡http://www.loa-cnr.it/ontologies/DO
Lite.owlspecifically-constantly-dependent-on¿⁻
∃ specific-constant-dependent Thing ⊑ particular
⊤ ⊑ ∀ specific-constant-dependent particular

specifically-constantly-dependent-on

⊑ immediate-relation-i
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-dependent¿ ≡ ¡http://www.loa-cnr.it/ontologies/DO
Lite.owlspecifically-constantly-dependent-on¿⁻
∃ specifically-constantly-dependent-on Thing ⊑ particular
⊤ ⊑ ∀ specifically-constantly-dependent-on particular

strong-connection

⊑ mediated-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlstrong-connection¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite
connection¿⁻
∃ strong-connection Thing ⊑ particular
⊤ ⊑ ∀ strong-connection particular

t-inherent-in

⊑ inherent-in

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlt-inherent-in¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl
t-quality¿⁻
∃ t-inherent-in Thing ⊑ quality
⊤ ⊑ ∀ t-inherent-in particular

temporary-atomic-part

⊑ temporary-proper-part
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-atomic-part-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOL
Lite.owltemporary-atomic-part¿⁻

temporary-atomic-part-of

⊑ temporary-proper-part-of
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-atomic-part-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOL
Lite.owltemporary-atomic-part¿⁻

temporary-part

⊑ part
⊑ partly-compresent
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-part-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite
part¿⁻

temporary-part-of

⊑ partly-compresent
⊑ part-of
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-part-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite
part¿⁻

temporary-participant

⊑ participant
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-participant¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE
participant-in¿⁻
∃ temporary-participant Thing ⊑ perdurant

temporary-participant-in

⊑ participant-in
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-participant¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE
participant-in¿⁻
⊤ ⊑ ∀ temporary-participant-in perdurant

temporary-proper-part

⊑ temporary-part

⊑ proper-part

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-proper-part¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-
proper-part-of¿⁻

temporary-proper-part-of

⊑ temporary-part-of

⊑ proper-part-of

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-proper-part¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-
proper-part-of¿⁻

time-of-q-presence-of

⊑ mediated-relation-i

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltime-of-q-presence-of¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-L
present-at¿⁻

∃ time-of-q-presence-of Thing ⊑ time-interval

⊤ ⊑ ∀ time-of-q-presence-of physical-quality

total-constant-participant

⊑ constant-participant

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-constant-participant¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOL
Lite.owltotal-constant-participant-in¿⁻

∃ total-constant-participant Thing ⊑ perdurant

total-constant-participant-in

⊑ constant-participant-in

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-constant-participant¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOL
Lite.owltotal-constant-participant-in¿⁻

⊤ ⊑ ∀ total-constant-participant-in perdurant

total-temporary-participant

⊑ temporary-participant

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-temporary-participant-in¿ ≡ ¡http://www.loa-cnr.it/ontologies/
Lite.owltotal-temporary-participant¿⁻

∃ total-temporary-participant Thing ⊑ perdurant

total-temporary-participant-in

⊑ temporary-participant-in

¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-temporary-participant-in¿ ≡ ¡http://www.loa-cnr.it/ontologies/
Lite.owltotal-temporary-participant¿⁻

⊤ ⊑ ∀ total-temporary-participant-in perdurant

weak-connection

⊑ immediate-relation
¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlweak-connection¿ ≡ ¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.c
connection¿⁻
∃ weak-connection Thing ⊑ particular
⊤ ⊑ ∀ weak-connection particular

Data properties

Individuals

Datatypes

string