

Package geometry, stratified time, and the quadratic obstruction

Short name: **apg_en.pdf**

This article is rebuilt from Monograph 2.4. It begins with an abstract, a shared NAPRLK / NAPG 2.0 context note, and a local table of contents, followed by the extracted and verified core text.

Abstract

This article gathers the foundational geometric node of Monograph 2.4: the package point, stratified time, the operators of action/change/reversal, and the quadratic obstruction as a criterion of structural completeness.

Shared NAPRLK / NAPG 2.0 context

In NAPRLK / NAPG 2.0 space is not the primitive container. The primary support is stratified time, while observable geometry appears as a layer, a section, and a controlled reading regime of the package architecture.

Article contents

1. The design of version 2.1
2. Primary ontology: the package point and stratified time
3. Summary table of strata
4. Quadratic obstruction and projective truth
5. Operators of action, change, and reversal

Source: Monograph 2.4 EN, chapters 1-4

CHAPTER 1

The de- sign and ar- chi- tec- ture of ver- sion 2.1

Version
2.1
pro-
ceeds
from
three
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sic
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sions.

First,
re-
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is
not
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as
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ple
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quence
of
events.

It
is
un-
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stood
as
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tively
stitched
RPLD-
object,
and
the
truth
of
its
lo-
cal
and
global
forms
is
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pressed
through
the
har-
monic
limit
 $\lambda_0 - 1$.

Second,
time
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posited
not
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ter
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a

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port.
Space,
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zon,
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pears
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layer,
a
sec-
tion,
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On
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as
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layer
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cal
regimes
of
bind-
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time,
space,
causal-
ity,
and
truth.

CHAPTER 2

Pri- mary on- tol- ogy: the pack- age point and strat- i- fied time

egindefinition[Package
point]

A
pack-
age
point
is
an
or-
dered
pair

$a = (e, s)$,

where

e
is
an
event
and

s
is
a
state.

The

set
of
all
pack-
age
points
is
de-
noted
by
 $\mathcal{P} \subseteq$
 $\mathcal{E}imes\mathcal{S}$.

egindefinition[Package
line]
For
ev-
ery
state
 $s \in$
 \mathcal{S} ,
de-
fine
the
pack-
age
line

$$L_s = \{(e, s) \in \mathcal{P}\},$$

that
is,
the
layer
of
the
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ture
at
fixed
state.

egindefinition[Stratified
time]
Strat-
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fied
time
is
a

triple

$(\mathbb{T}, \mathcal{S}, \dim_{\text{loc}})$

where

\mathbb{T}

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ries

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tra-

tion

$\mathbb{T}^{(-1)} \supset \mathbb{T}^{(0)} \supset \mathbb{T}^{(1)} \supset \mathbb{T}^{(2)} \supset \mathbb{T}^{(3)}$.

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$\mathbb{T}^{(-1)}$

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Summary table of strata

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>p0.27extwidth
>p0.27extwidth
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CHAPTER 3

Quadratic obstruction and projective truth

egindefinition[Quadratic

obstruction]

The quadratic obstruction is the class

\mathcal{O}_B arising from the quadratic part of the deformation equation.

It
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 sures
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 eginproposition
 If
 $\mathcal{O}_B =$
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If
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$$(A, B; C, D) = -1.$$

egindefinition[λ -
truth]

Let

$$\lambda = (A, B; C, D).$$

Then

$$\lambda =$$

$$-1$$

is

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truth,

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truth

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fect:

$$\delta_{\text{truth}} = |\lambda + 1|.$$

CHAPTER 4

Op- er- a- tors of ac- tion, change, and re- ver- sal

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egindefinition[Change]

The
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of

change

$$\Xi_a u: \mathbb{T} \circ \mathbb{T}, \quad au \geq 0,$$

is

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egindefinition[Action]

The

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$$\Delta: \mathcal{P}_\emptyset \circ \mathbb{T}$$

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egindefinition[Reversal]

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