

Top layer metadata & further discussion points

PUNCH4NFDI, TA4 – WP2

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top layer

-

mandatory properties

?

Metadata Record

Identifier: (DOI)

10.7483/OPENDATA.CMS.LVG5.QT81

Creators:

Creator:

Creator Name: Wunsch, Stefan

Given Name: Stefan

Family Name: Wunsch

Name Identifier: 0000-0002-4485-2972

Titles:

Title:

DoubleMuParked dataset from 2012 in NanoAOD format reduced on muons

```
<?xml version="1.0" encoding="UTF-8"?>
<resource>
<identifier identifierType="DOI">10.7483/OPENDATA.CMS.LVG5.QT81</identifier>
<creators>
  <creator>
    <creatorName nameType="Personal">Wunsch, Stefan</creatorName>
    <givenName>Stefan</givenName>
    <familyName>Wunsch</familyName>
    <nameIdentifier nameIdentifierScheme="ORCID" schemeURI="http://orcid.org">0000-0002-4485-2972</nameIdentifier>
  </creator>
</creators>
<titles>
<title>DoubleMuParked dataset from 2012 in NanoAOD format reduced on muons</title>
</titles>
<publisher>CERN Open Data Portal</publisher>
<publicationYear>2019</publicationYear>
<resourceType resourceTypeGeneral="Dataset">Derived</resourceType>
</resource>
```

Publisher:

CERN Open Data Portal

Publication Year:

2019

Resource Type: (Dataset)

Derived

Metadata Record

Identifier: (DOI)

10.17876/gaia/dr.3/1

Creators:*Creator:*

Creator Name: European Space Agency (ESA)

Given Name:

Family Name:

Name Identifier:

Creator:

Creator Name: DPAC Consortium

Given Name:

Family Name:

Name Identifier:

Titles:*Title:*

Gaia Source

```
<?xml version='1.0' encoding='utf-8'?>
<resource>
  <identifier identifierType="DOI">10.17876/gaia/dr.3/1</identifier>
  <creators>
    <creator>
      <creatorName nameType="Organizational">European Space Agency (ESA)</creatorName>
    </creator>
    <creator>
      <creatorName nameType="Organizational">DPAC Consortium</creatorName>
    </creator>
  </creators>
  <titles>
    <title>Gaia Source</title>
  </titles>
  <publisher>Leibniz Institute for Astrophysics Potsdam (AIP)</publisher>
  <publicationYear>2022</publicationYear>
  <resourceType resourceTypeGeneral="Dataset">Database table</resourceType>
</resource>
```

Publisher:

Leibniz Institute for Astrophysics Potsdam (AIP)

Publication Year:

2022

Resource Type: (Dataset)

Database table

Metadata Record

Identifier: (DOI)

10.5072/example-full

Creators:

Creator:

Creator Name: Miller, Elizabeth

Given Name: Elizabeth

Family Name: Miller

Name Identifier: 0000-0001-5000-0007

Titles:

Title:

Full DataCite XML Example

Title:

Demonstration of DataCite Properties.

(Subtitle)

```
<?xml version="1.0" encoding="UTF-8"?>
<resource>
  <identifier identifierType="DOI">10.5072/example-full</identifier>
  <creators>
    <creator>
      <creatorName nameType="Personal">Miller, Elizabeth</creatorName>
      <givenName>Elizabeth</givenName>
      <familyName>Miller</familyName>
      <nameIdentifier nameIdentifierScheme="ORCID" schemeURI="http://orcid.org">0000-0001-5000-0007</nameIdentifier>
    </creator>
  </creators>
  <titles>
    <title>Full DataCite XML Example</title>
    <title titleType="Subtitle">Demonstration of DataCite Properties.</title>
  </titles>
  <publisher>DataCite</publisher>
  <publicationYear>2014</publicationYear>
  <resourceType resourceTypeGeneral="Software">XML</resourceType>
</resource>
```

Publisher:

DataCite

Publication Year:

2014

Resource Type: (Software)

XML

PUNCH

XML and Representation

HEP: new derived Dataset & Metadata

Metadata Record

Identifier: (DOI)

:tba

Creators:

Creator:

Creator Name: PUNCH4NFDI

Given Name:

Family Name:

Name Identifier: ~~https://ror.org/xxxxxxx~~

Titles:

Title:

Run2012B_DoubleMuParked

```
<?xml version='1.0' encoding='utf-8'?>
<resource>
  <identifier identifierType="DOI">:tba</identifier>
  <creators>
    <creator>
      <creatorName nameType="Organizational">PUNCH4NFDI</creatorName>
      <nameIdentifier nameIdentifierScheme="ROR" schemeURI="https://ror.org">https://ror.org/xxxxxxx</nameIdentifier>
    </creator>
  </creators>
  <titles>
    <title>Run2012B_DoubleMuParked</title>
  </titles>
  <publisher>https://dashboard-p4n.aip.de/</publisher>
  <publicationYear>2022</publicationYear>
  <resourceType resourceTypeGeneral="Dataset">Derived</resourceType>
</resource>
```

Publisher:

https://dashboard-p4n.aip.de/

Publication Year:

2022

Resource Type: (Dataset)

Derived

Alternate Identifiers:

Alternate Identifier: (recid)

PUNCH-hep-ex-001

Discussion points

... referring to mandatory properties

- **PIDs**

- Identifier: DOI
 - further PIDs: URN, Handle ...
- Creators:
 - **name** IdentifierScheme: ORCID, ISNI, ROR, (GRID)
 - **affiliation** IdentifierScheme: ROR, (GRID)

(Affiliation: “The organizational or institutional affiliation of the creator.”)

[cf. <https://doi.org/10.14454/3w3z-sa82>, DataCite Metadata Schema V 4.4, p.14]

- Titles: /
- Publisher: /
- Publication Year: /
- Resource Type: /

Discussion points

... questions for the PUNCH community

- **Persistent Identifiers vs. Identifiers**
 - Listing for each subgroup?
- **Published vs. public**
 - What does it mean to publish a dataset? – Persistence?
 - Subgroups could be asked about their criteria for publishing data
- **Identifying PUNCH**
 - DOI
 - Record-ID: e.g. “PUNCH-arXiv Category-number” (→ https://arxiv.org/category_taxonomy)
 - Who uses arXiv? Is arXiv representative for PUNCH?
 - Further integration options for subject indexing?
 - Top layer representation of a potential PUNCH record only helpful for researchers from different fields if we decide on senseful indexing content that can be searched for.
 - Next resulting task: Subgroups to be asked for physical parameters

D-TA4-WP2-1

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Q4/2022

**Prototype metadata describing the
interaction of software and data**

Discussion points

... referring to “**Prototype metadata describing the interaction of software and data.**”

- Are we talking about prototypical metadata classifications for describing software, i.e. the object to be described is software?
- Is it a question of how to link the metadata of the record object to the metadata of the software object?
- Software → Versioning (DataCite: <https://support.datacite.org/docs/versioning>)
- How is the realization of Deliverable 1 formally defined and what are the organizational requirements?

Vielen Dank!

Contact

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