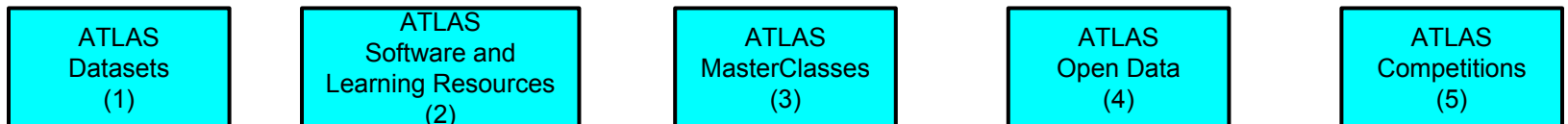


ATLAS proposal for updates into the CERN Open Data portal



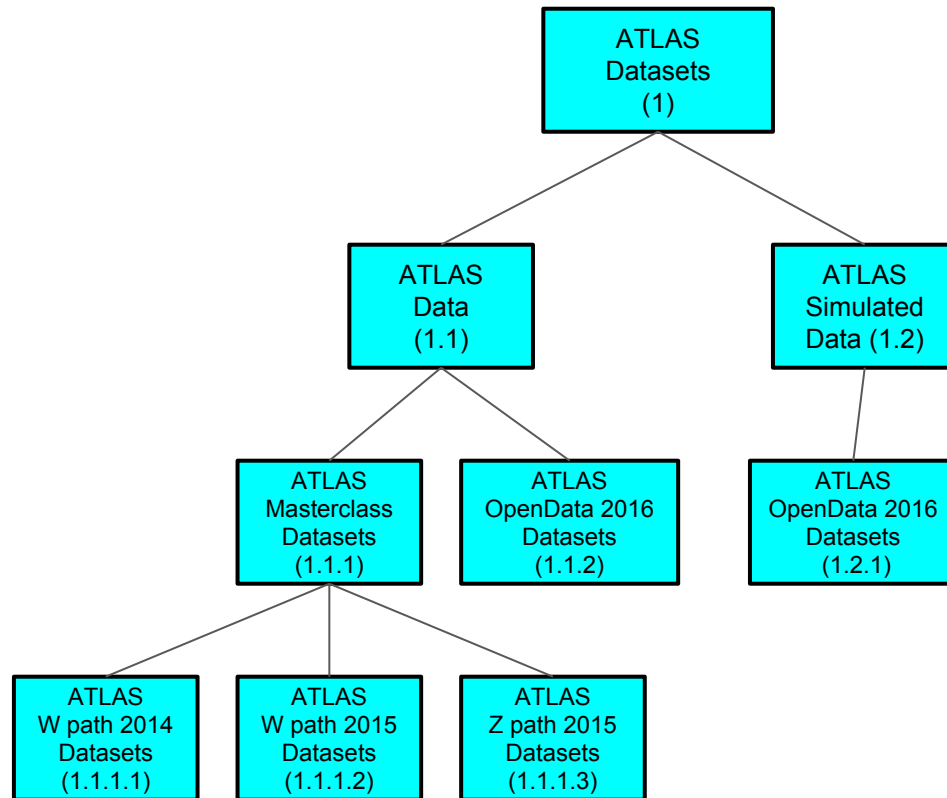
ATLAS Datasets: This section includes ATLAS data and simulated data samples.

ATLAS Software and Learning Resources: This section includes Hypatia, Minerva and ATLAS Open Data.

ATLAS Masterclasses: This section includes the LHC International MasterClasses and the WPath 2015 MasterClasses MINERVA software.

ATLAS Open Data: This section includes tools which use ATLAS open data, including software and virtual machines, as well as the data itself.

ATLAS Competitions: This section includes public competitions such as the ATLAS Higgs Challenge 2014.



ATLAS Data: This collection contains all open ATLAS datasets.

ATLAS Simulated Data: This collection contains all open ATLAS simulated datasets.

ATLAS Masterclass Datasets:

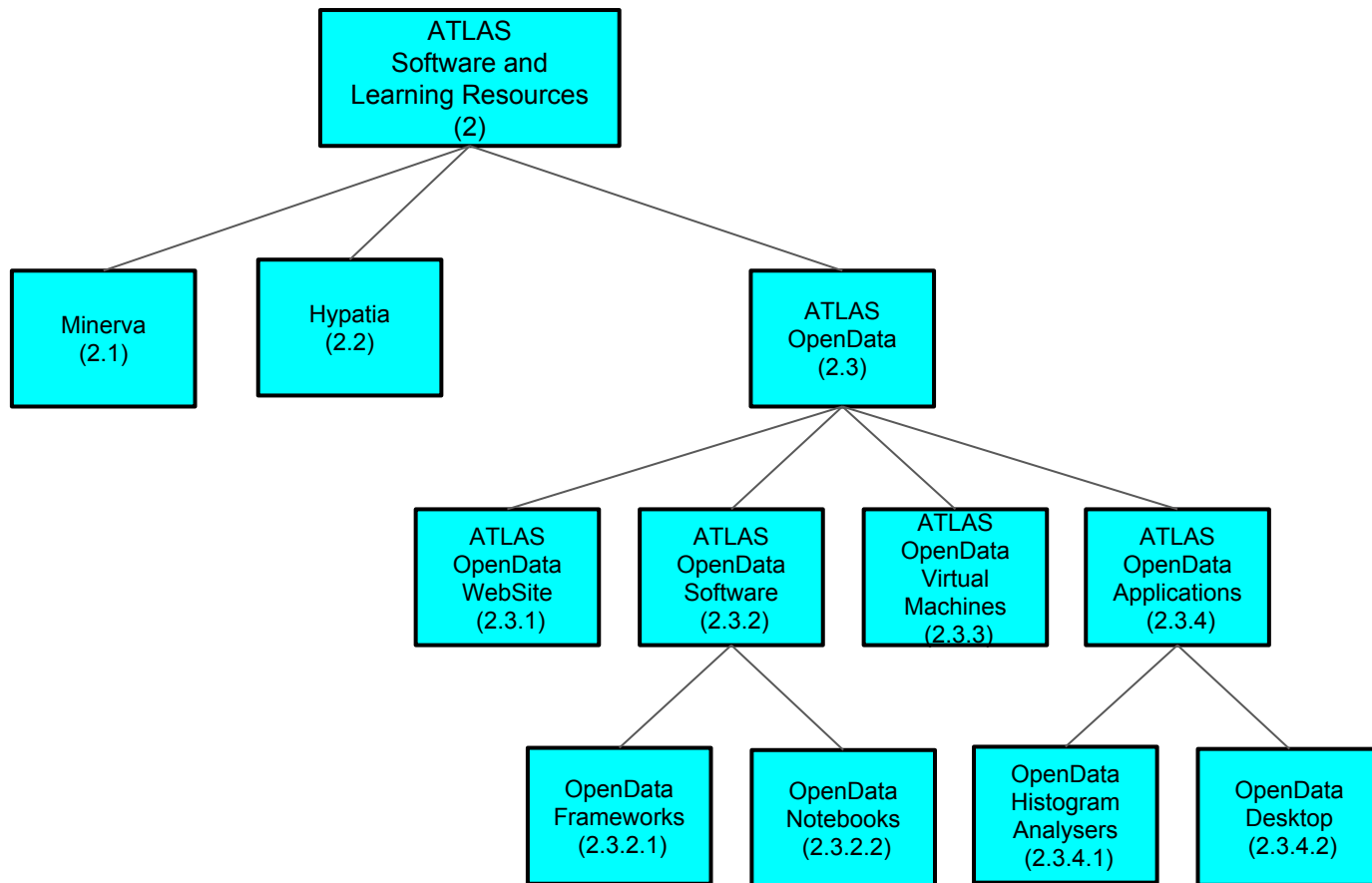
- **ATLAS W path 2014 Datasets:** This collection of data includes events recorded in 2011. To be used for WPath 2014 Masterclass.
- **ATLAS W path 2015 Datasets:** This collection of data includes events recorded in 2011. To be used for WPath 2015 Masterclass.
- **ATLAS Z path 2015 Datasets:** This collection of data includes events recorded in 2012. To be used for ZPath 2015 Masterclass.

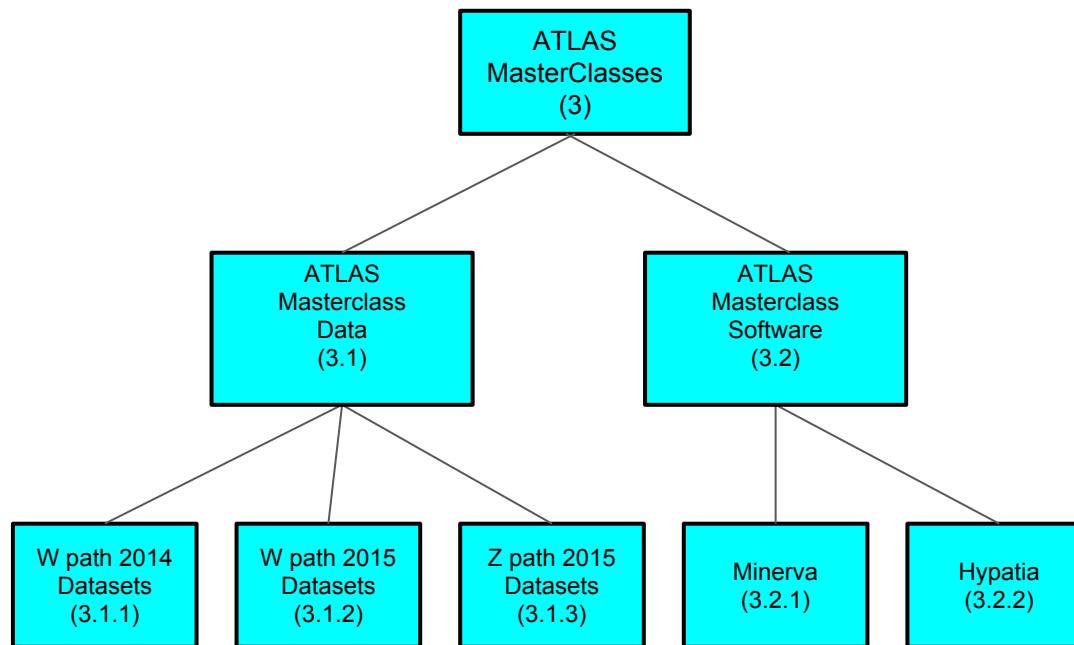
ATLAS Open Data 2016 Datasets:

- **ATLAS Egamma Dataset Open Data 2016:** ATLAS Open Data 2016. This collection of electron and gamma events were recorded in 2012.
- **ATLAS Muon Dataset Open Data 2016:** ATLAS Open Data 2016. This collection of muon events were recorded in 2012.

ATLAS Simulated Data:

- **ATLAS Open Data 2016 Datasets:** This collection of simulated events are provided alongside the data from ATLAS Open Data 2016.





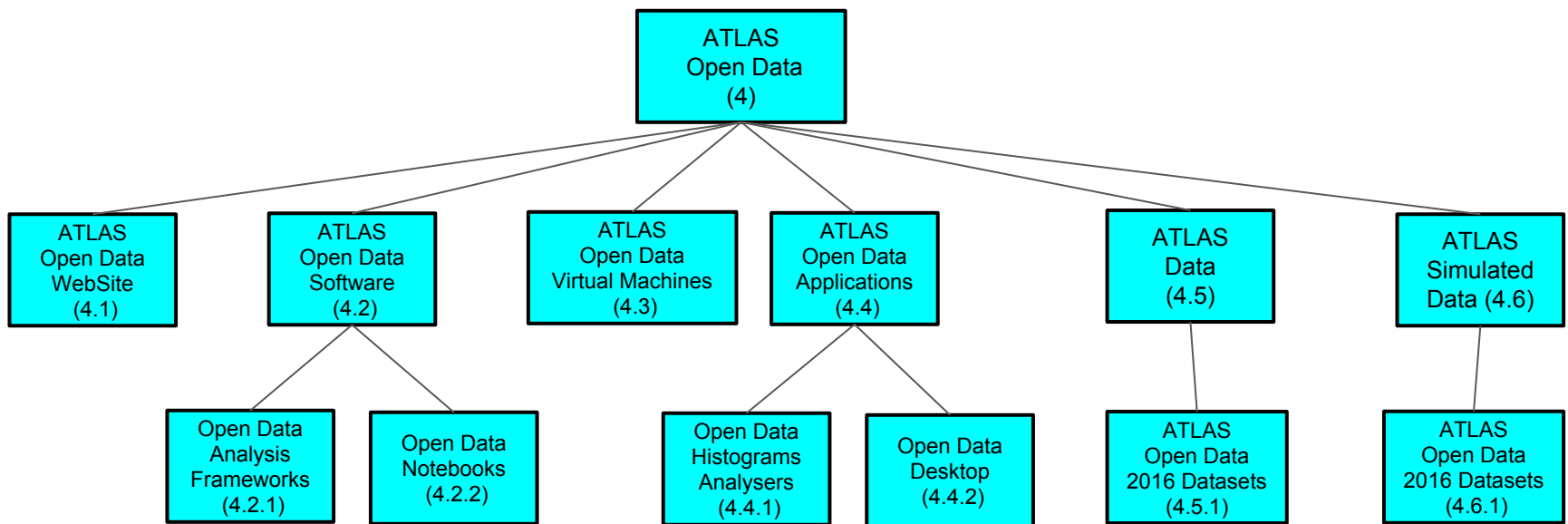
ATLAS Masterclasses:

ATLAS Data:

- **ATLAS W path 2014 Datasets:** This collection of data includes events recorded in 2011. To be used for WPath 2014 Masterclass.
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- **ATLAS Z path 2015 Datasets:** This collection of data includes events recorded in 2012. To be used for ZPath 2015 Masterclass.

ATLAS Software:

- **Minerva:** View event displays prepared for the W-Path Masterclasses.
- **Hypatia:** Study the fundamental particles of matter and their interactions through the inspection of the graphic visualisation and display of the products of particle collisions.



ATLAS Open Data:

ATLAS Open Data Website: link and introduction to the website, as currently exists here <http://opendata.cern.ch/education/ATLAS>

ATLAS Open Data Software: Learning resources for reading and analysing the Open Data 2016 datasets.

Open Data Analysis Frameworks: Analyses using ATLAS datasets written in Python and C++. Follow instructions to run the code and produce plots to look at ATLAS data. This code can also be modified to create new physics analyses.

Open Data Notebooks: Jupyter notebooks under ROOT python or C++ kernels. Jupyter notebook is an open-source web application that allows you to create and share your code. Open Data Notebooks contain example physics analyses which can be used as a starting point to create your own physics analysis using ATLAS data.

ATLAS Open Data Virtual Machines: Customised set of Virtual Machines, providing computer environments to perform data analysis

- ATLAS Virtual Machine Version Small for (VM-S) ATLAS Open Data. For description and specifications please visit [ATLAS OpenData VMs](#)
- ATLAS Virtual Machine Version Medium (VM-M) for ATLAS Open Data. For description and specifications please visit [ATLAS OpenData VMs](#)
- ATLAS Virtual Machine Version Large (VM-L) for ATLAS Open Data. For description and specifications please visit [ATLAS OpenData VMs](#)
- ATLAS Virtual Machine Version NET (VM-N) for ATLAS Open Data. For description and specifications please visit [ATLAS OpenData VMs](#)
- ATLAS Virtual Machine Version micro (VM- μ) for ATLAS Open Data. For description and specifications please visit [ATLAS OpenData VMs](#)

ATLAS Open Data Applications: Set of software applications that can be downloaded and used offline for educational purposes

- Open Data Histogram Analysers: A combination of JavaScript and HTML to let you visualize histograms and interact with them directly in your browser.
- Open Data Desktop: (UNDER DEVELOPMENT) Electron-kind desktop application for Windows and Mac OS users to run all ATLAS Open Data resources.

ATLAS Data: This collection contains all ATLAS open data datasets

- ATLAS Open Data 2016 Datasets: This collection of data includes events recorded in 2012

ATLAS Simulated Data: This collection contains all ATLAS open data simulated datasets.

- ATLAS Open Data 2016 Datasets: This collection of simulated events are provided alongside the data from open data 2016.

ATLAS
Competitions
(5)

Higgs
Challenge
2014
(5.1)