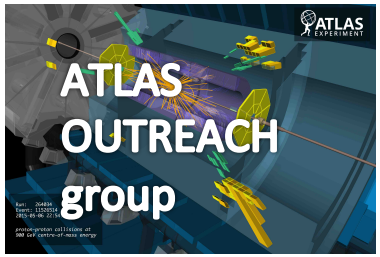
ATLAS & Open Data

Message #1, from the Management :

The executive board has approved the proposal from the Outreach data and tools group to release about 1 fb-1 of the 2012 (8 TeV) data in a limited ntuple format, along with tools for using it, via the CERN Open Data portal.

The release is targeted for educational and outreach use, and won't have enough information to perform, for example, systematic uncertainty studies etc.



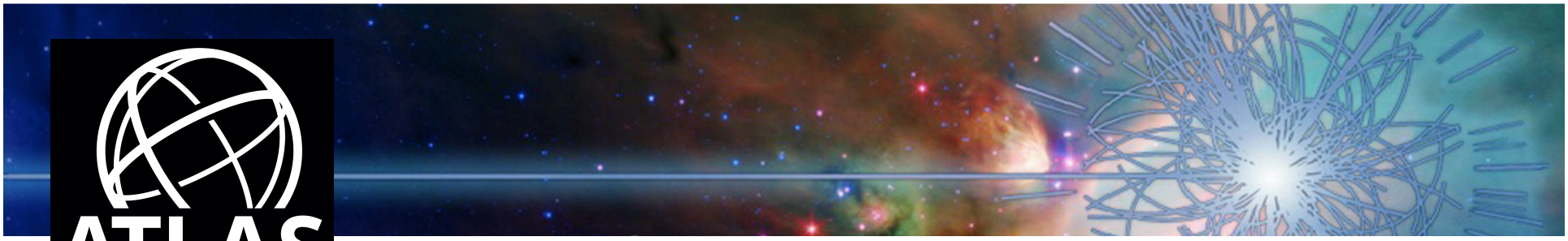
We will hopefully continue this with future data (2015 and beyond)
ATLAS Funding Agencies are in the loop

Message #2, from the Open Data group :

Several ATLAS groups are currently developing university level lab courses for teaching Data analysis strategies such as selection optimisation, histogramming and statistics… as well as detector and accelerator physics.

A survey of their needs allowed to define the data and simulation samples :

- 1 fb-1 of data @8 TeV is ~ 4.10^6 events in egamma stream; 6.10^6 in muon stream
- Monte-Carlo sample will include all SM processes, plus some Higgs and Z'
- Total size : ~ 7 Gb in storage
- Format : modified version of the mini ntuple used for Top analysis (4vectors, Met)



Message #3, for those who want to go further :

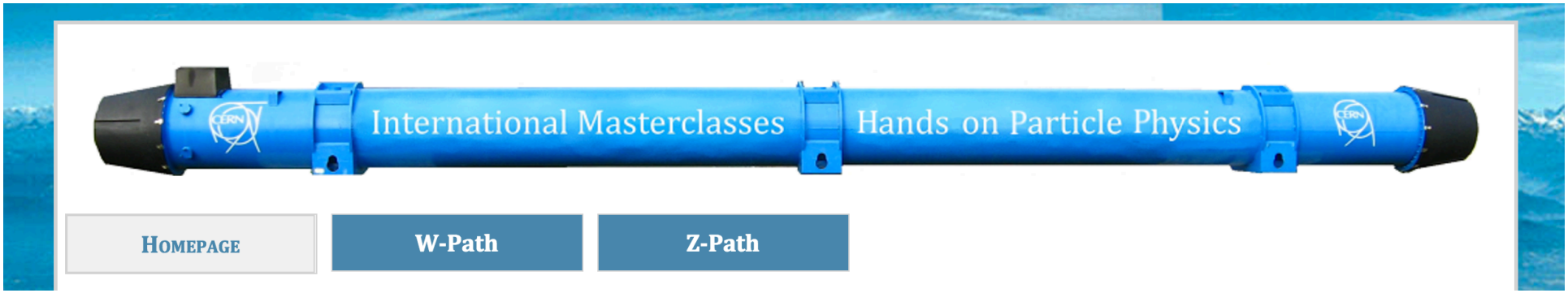
Progress in ML is strongly and proactively supported by Physics Coordination !

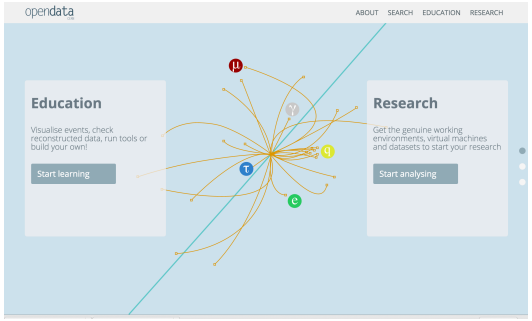
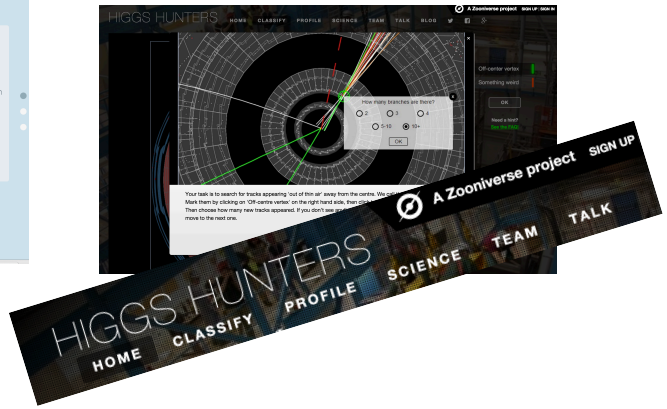
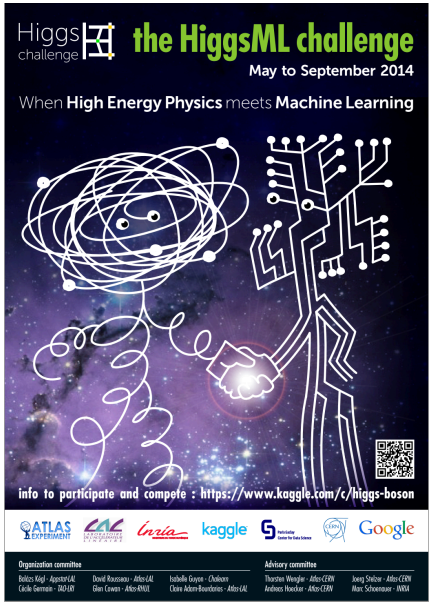
The status of **"Short Term Associate" (STA)**, initially setup for theory, was successfully used for Pierre Baldi, Peter Sadowski and Gregor Urban (University of California Irvine);

A simplified status of **"Analysis Consultant and Expert" (ACE)** was recently setup, with access to simulation and internal discussions.

Some relevant (and short !) documents are :

- Data Access Policy, ATL-CB-PUB-2015-001 https://cds.cern.ch/record/2002139
- Data Preservation Policy, ATL-CB-PUB-2015-001 https://cds.cern.ch/record/2012333



Very impressive progress within two years !

Exciting times are ahead of us