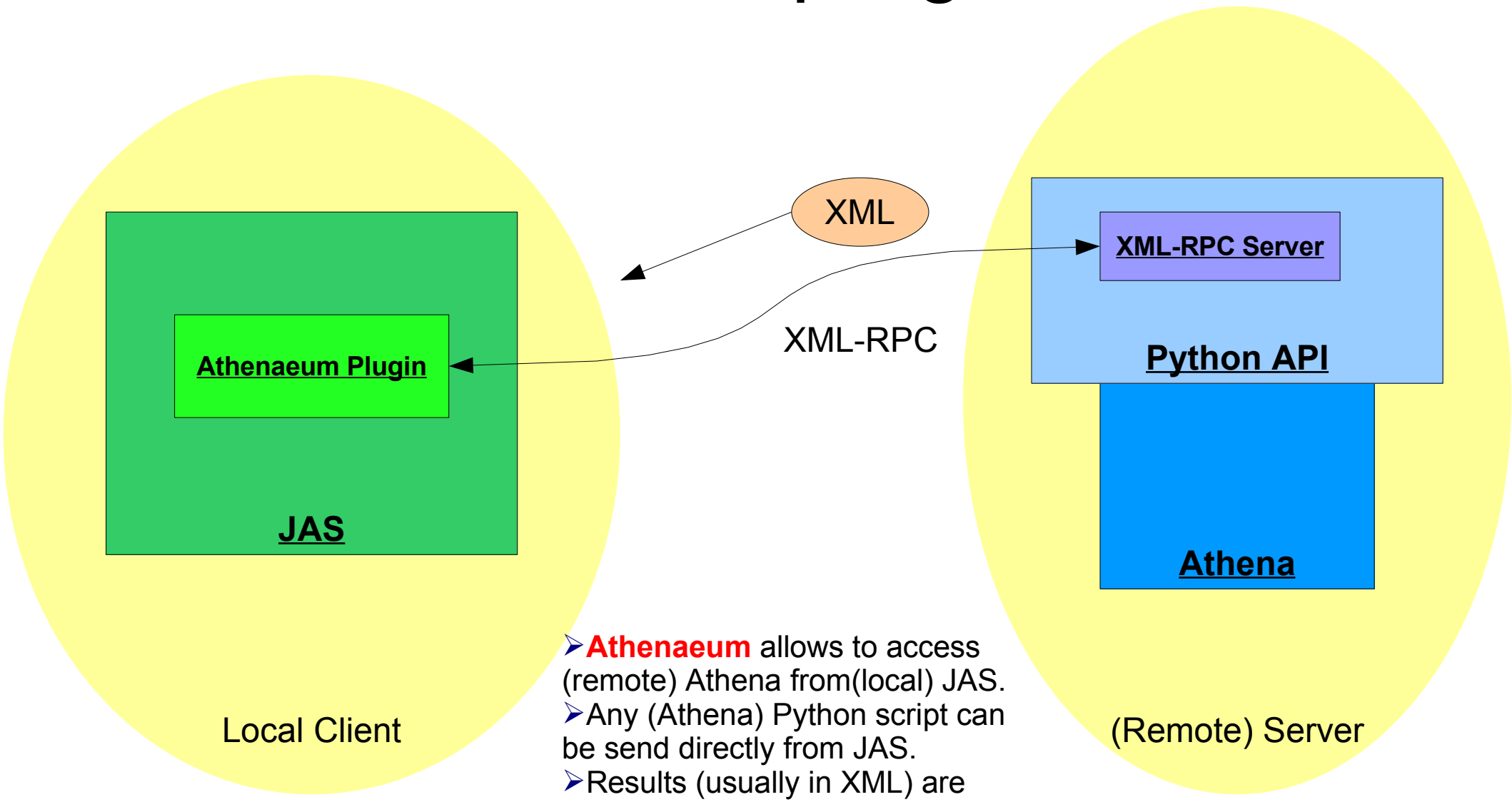
Cool Browser as Athenaeum plugin in JAS



- **Athenaeum** allows to access (remote) Athena from(local) JAS.
- Any (Athena) Python script can be send directly from JAS.
- Results (usually in XML) are send back and can be processed within JAS.

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Nov'05, LAr DB, CERN

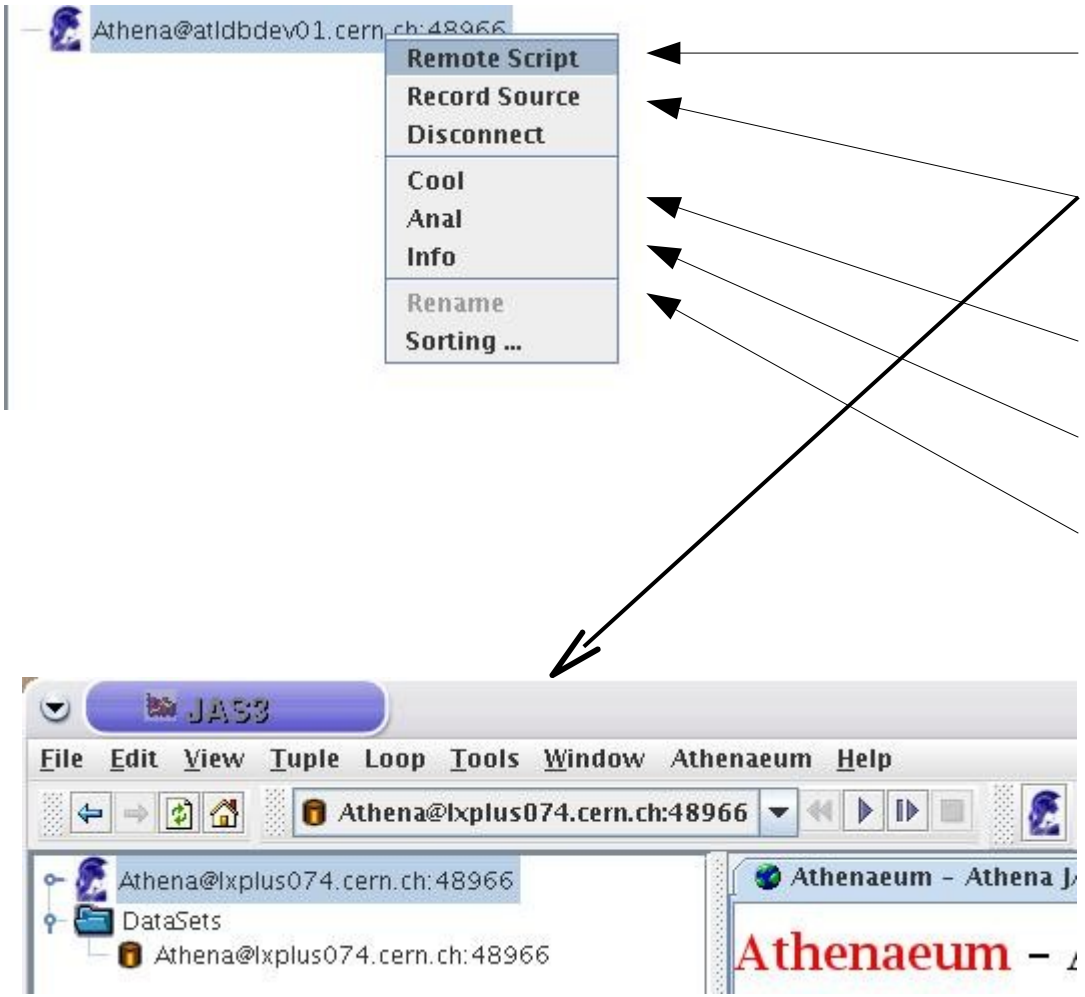
Open Connection


```
$ athena.py -i -s jobOptions.py
.........
XML-RPC server 'atldbdev01.cern.ch:48966' created
method 'process()' registered
Waiting for requests...
```

```
.................
execfile ("InteractiveServer.py")
server = InteractiveServer
server.start()
```

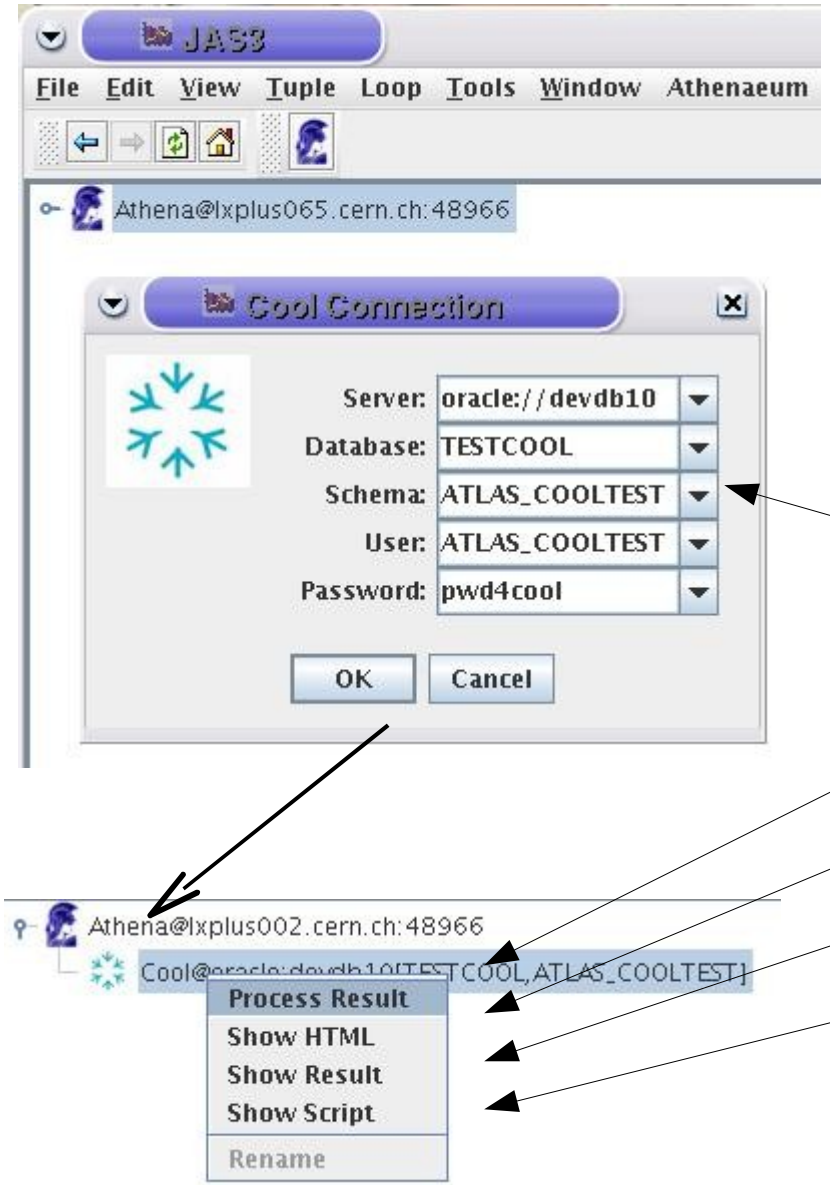
Server script originally written by Atlantis team

Interact with Athena



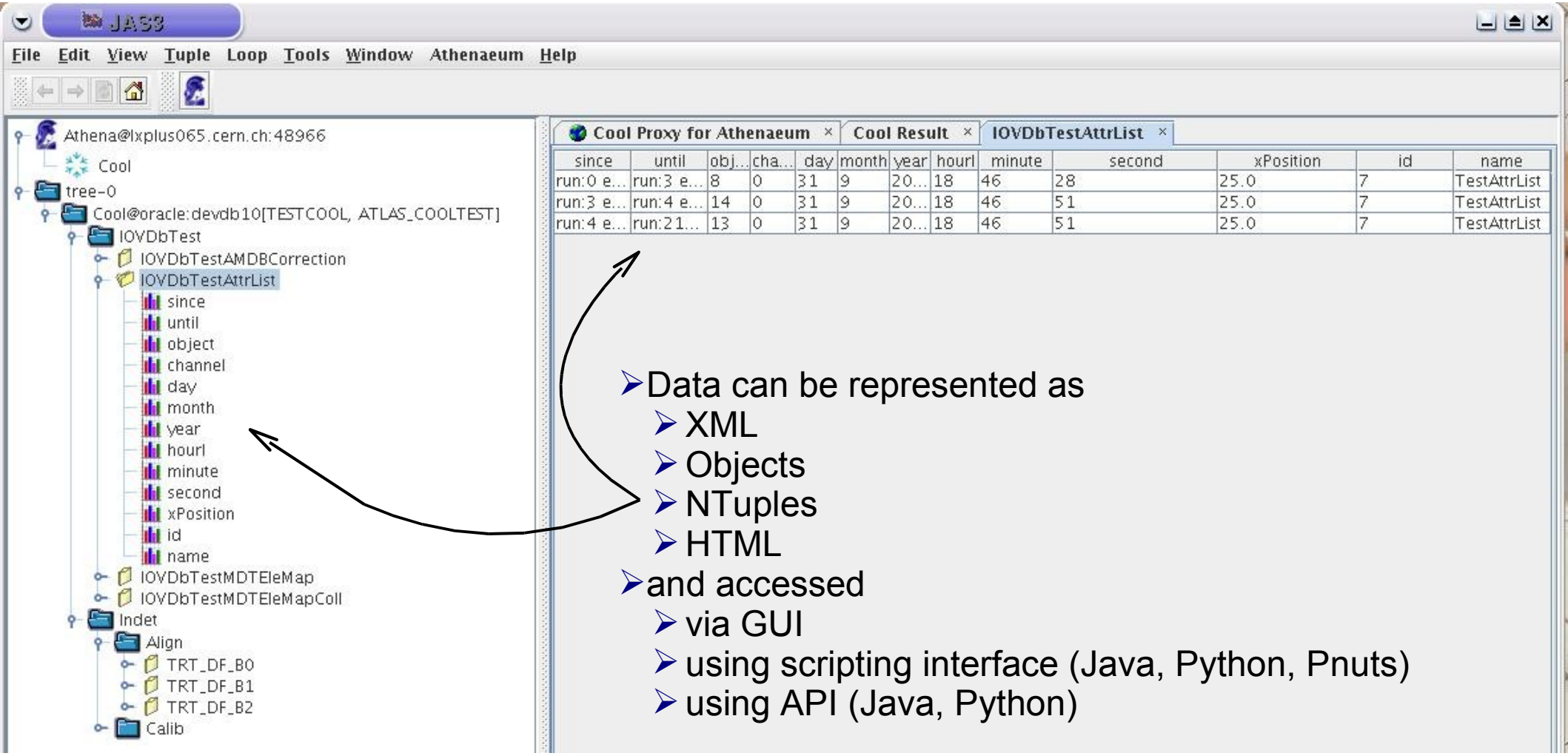
- Execute a Python script on Athena Server, get results back
- Steer Athena Event Loop from JAS
- Access Cool data
- Access Particle data
- Get Information about Athena Server (loaded dictionaries,...)

Interact with Cool



- Open connection to Cool DB
- Interpret data (as Ntuples)
- Show data as HTML
- Show data as XML
- Show Python script used to get data

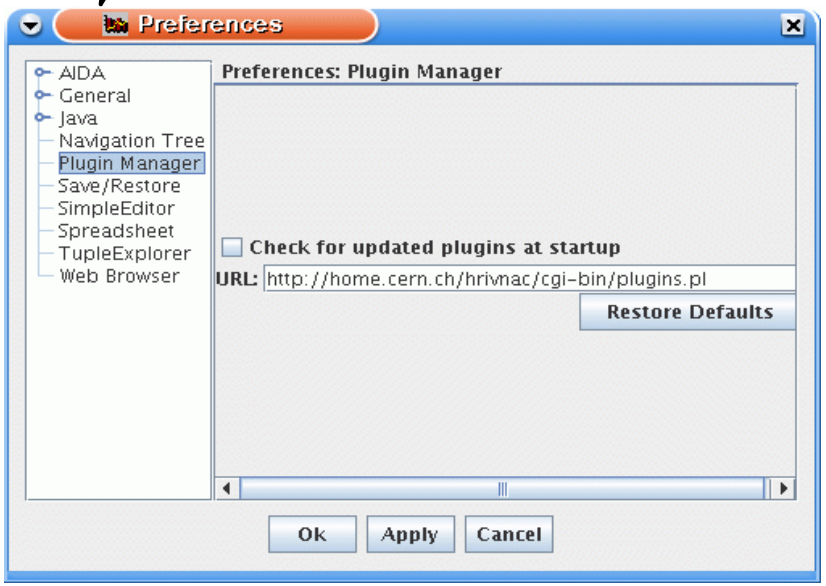
Work with Cool

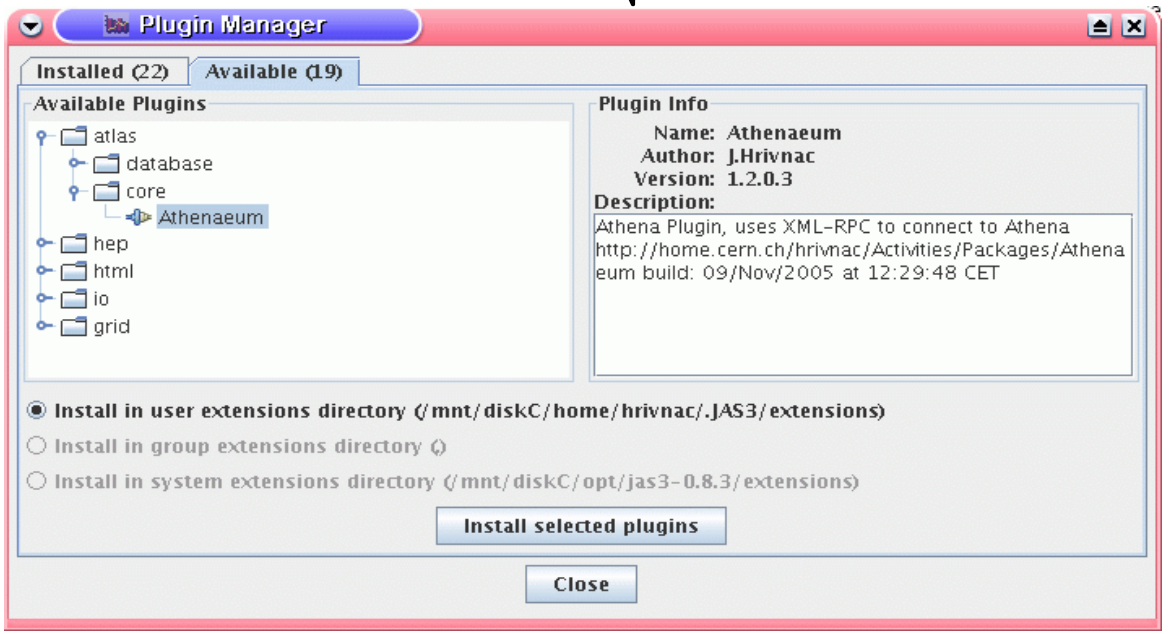


- Data can be represented as
  - XML
  - Objects
  - NTuples
  - HTML
- and accessed
  - via GUI
  - using scripting interface (Java, Python, Pnuts)
  - using API (Java, Python)

How To Start

- Within CERN AFS:
  - . /afs/cern.ch/sw/java/share/bin/setjdk sun 1.5.0_02
  - /afs/cern.ch/atlas/offline/external/JAS/jas3/jas3
- Elsewhere (any platform):
  - Get JAS from http://jas.freehep.org/jas3
  - Set Plugin Server (View - Preferences...)
  - Get Plugin (View – Plugin Manager...)





Help

- http://home.cern.ch/hrivnac/Activities/Packages/Athenaeum
- https://uimon.cern.ch/twiki/bin/view/Atlas/HowToUseJAS
- JAS integrated Help (with executable examples)