



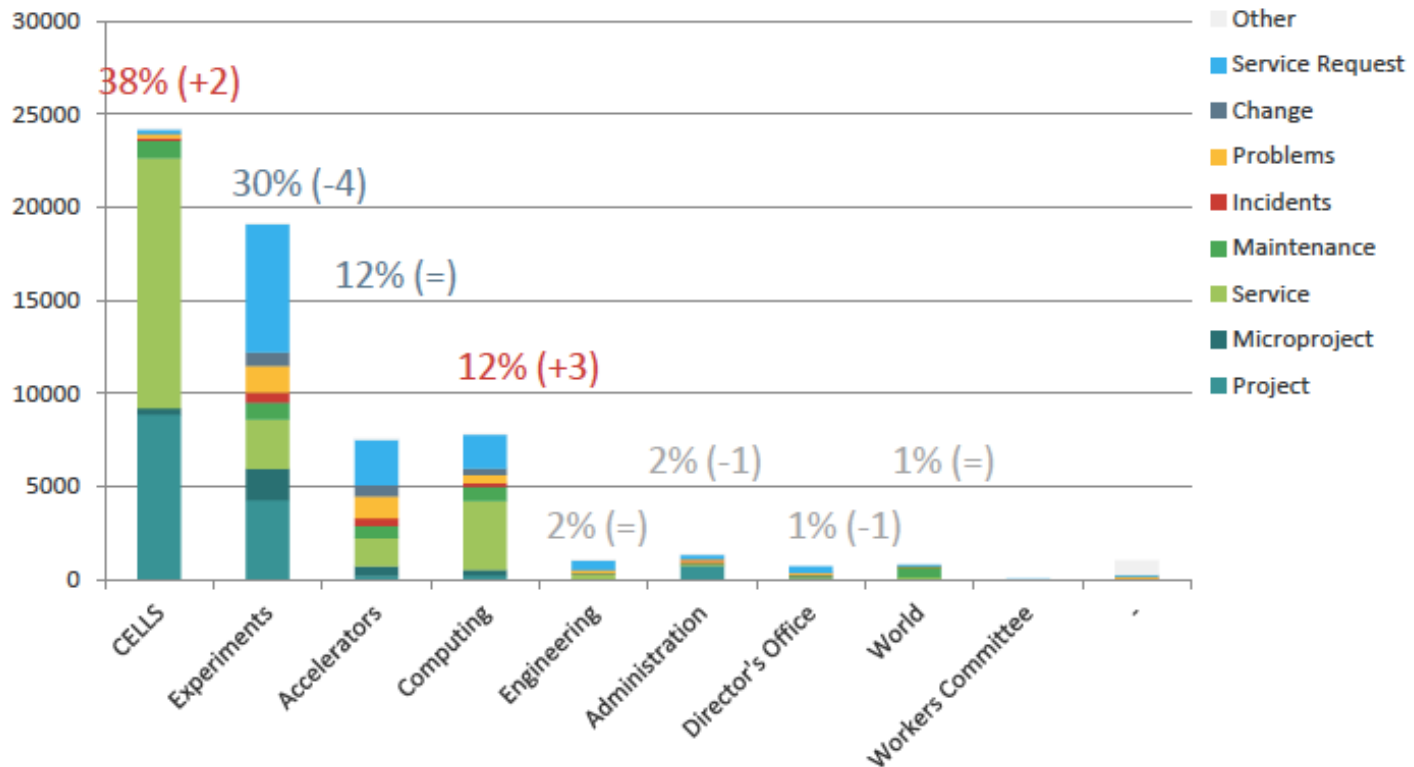
@



RDA-PanSig Workshop on
Interoperability

2016 summary: Distribution of efforts...

Hours per Customer: 63671 hours +1,2%





Collaborations among different institutes.

Grounds for interoperability?

Latest News

29 Mar 2017



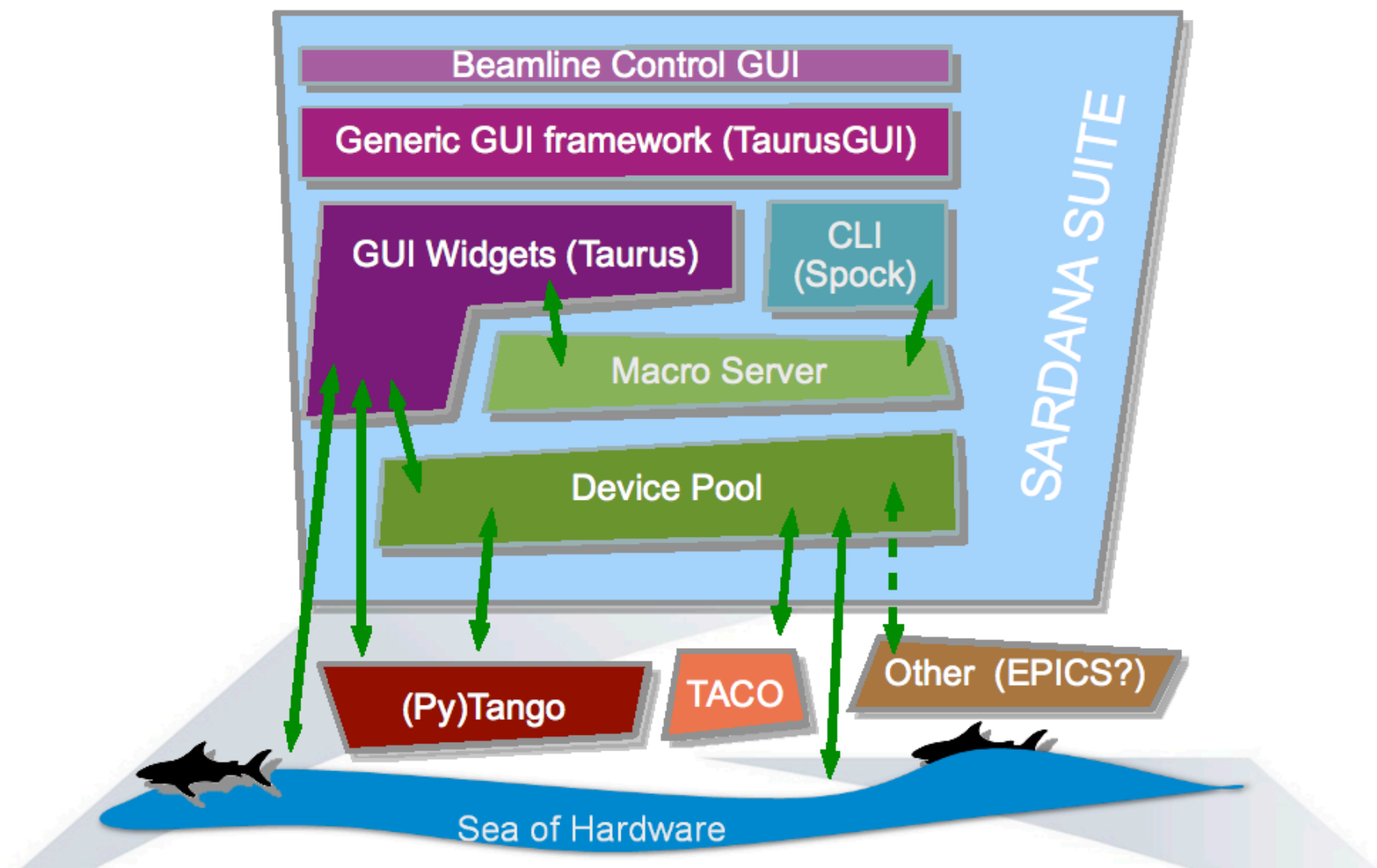
31st TANGO meeting - It's time to register

Event

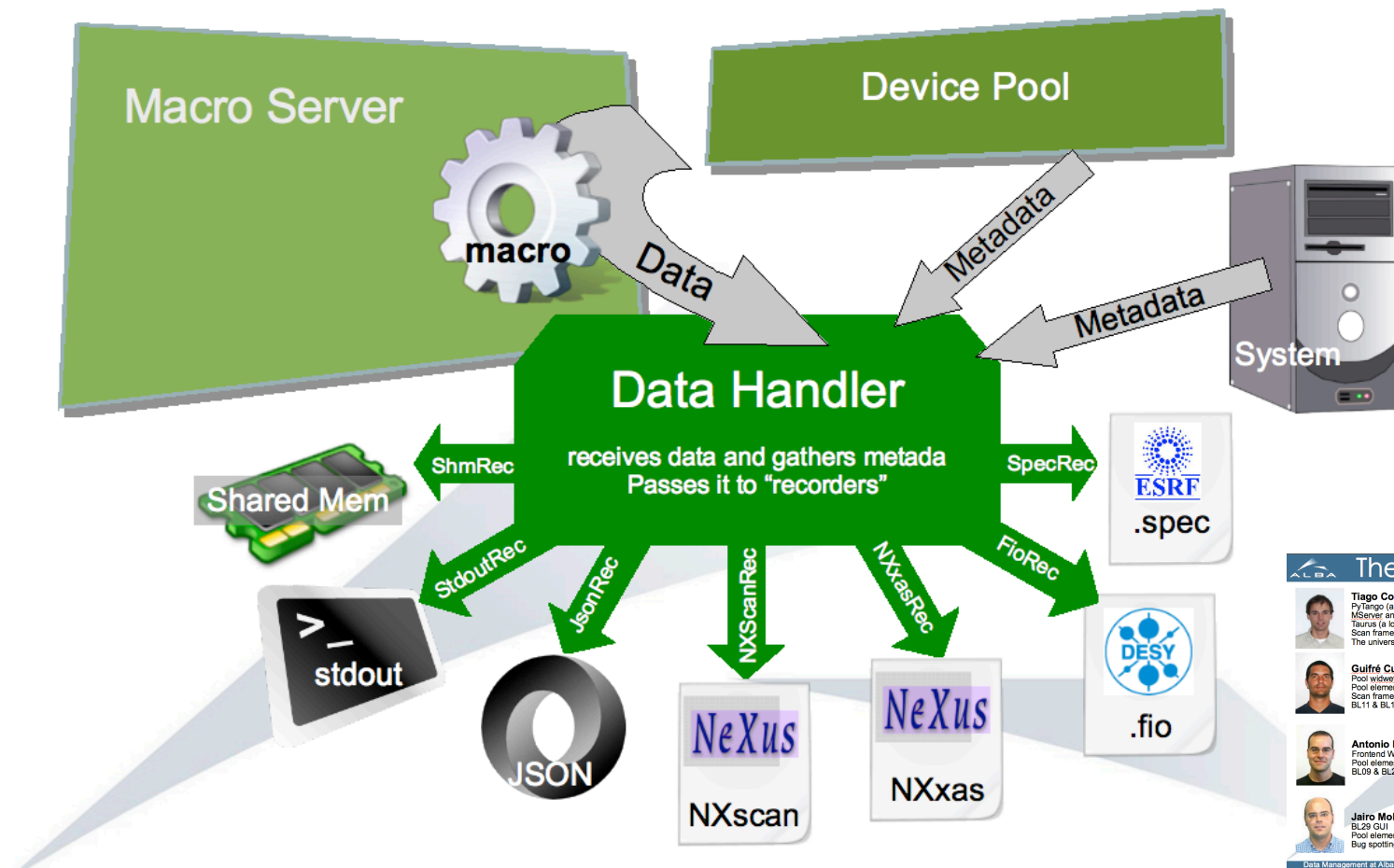
We remind you that the TANGO collaboration meeting will take place in Florence, hosted by the Arcetri Astrophysical Observatory in the nice location of Convitto de La Calza, from June 6th to 8th.

<http://www.tango-controls.org/community/events/31st-tango-collaboration-meeting/>












Sardana: Data acquisition



Data handling: recorders



The culprits: Alba BL controls

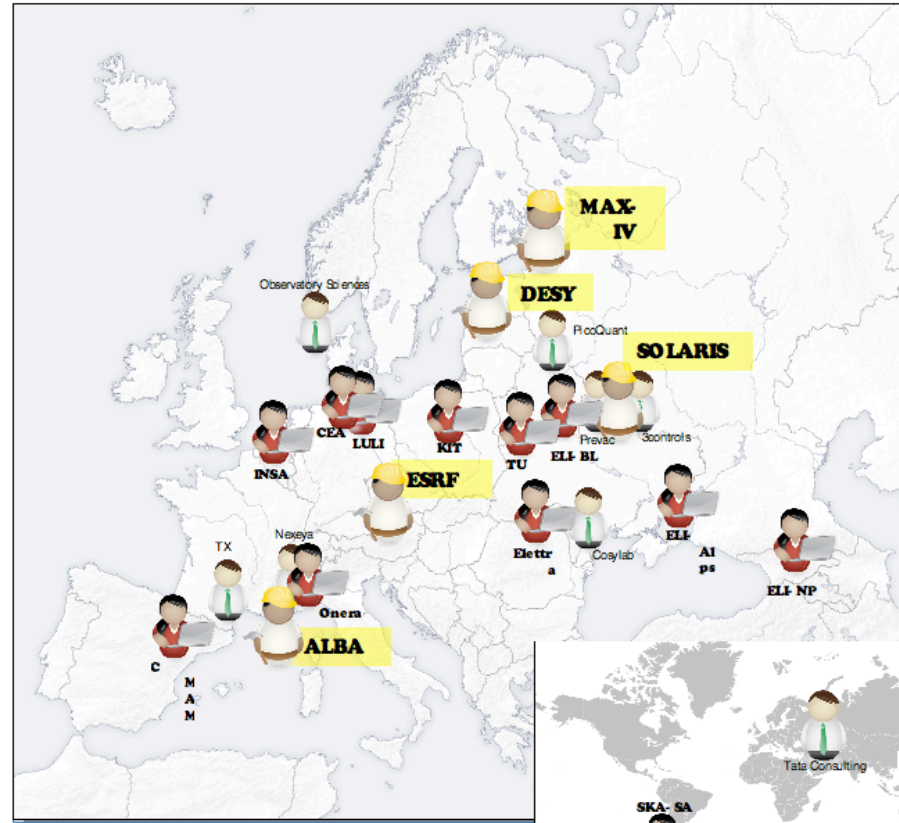
 Tiago Coutinho PyTango (all) MServer and Pool (all) Taurus (a lot) Scan Framework The universe in 6 days?	 Carlos Pascual Taurus (a bit) NXas support Scan Framework Pestering Tiago (a lot)	 David Fernández General guidance while trying not to be bossy
 Guifré Cuni Pool widgets Pool elements Scan Framework BL11 & BL13 GUIs	 Zbigniew Reszela MacroExecutor & Co Pool Elements BL22 & BL04 GUIs	 Jörg Klorer Chief salesman
 Antonio Milán Frontend Widget Pool elements BL09 & BL24 GUIs	 Sergi Rubio Vacuum widgets Alarm widgets Archiving integration	
 Jairo Moldes BL29 GUI Pool elements Bug spotting	 Sergi Blanch Taurus LIMA support CCDs	 Gabriel Jover LIMA-pool integration



Collaborations (DAQ) show clear benefits



Taurus & Sardana Communities



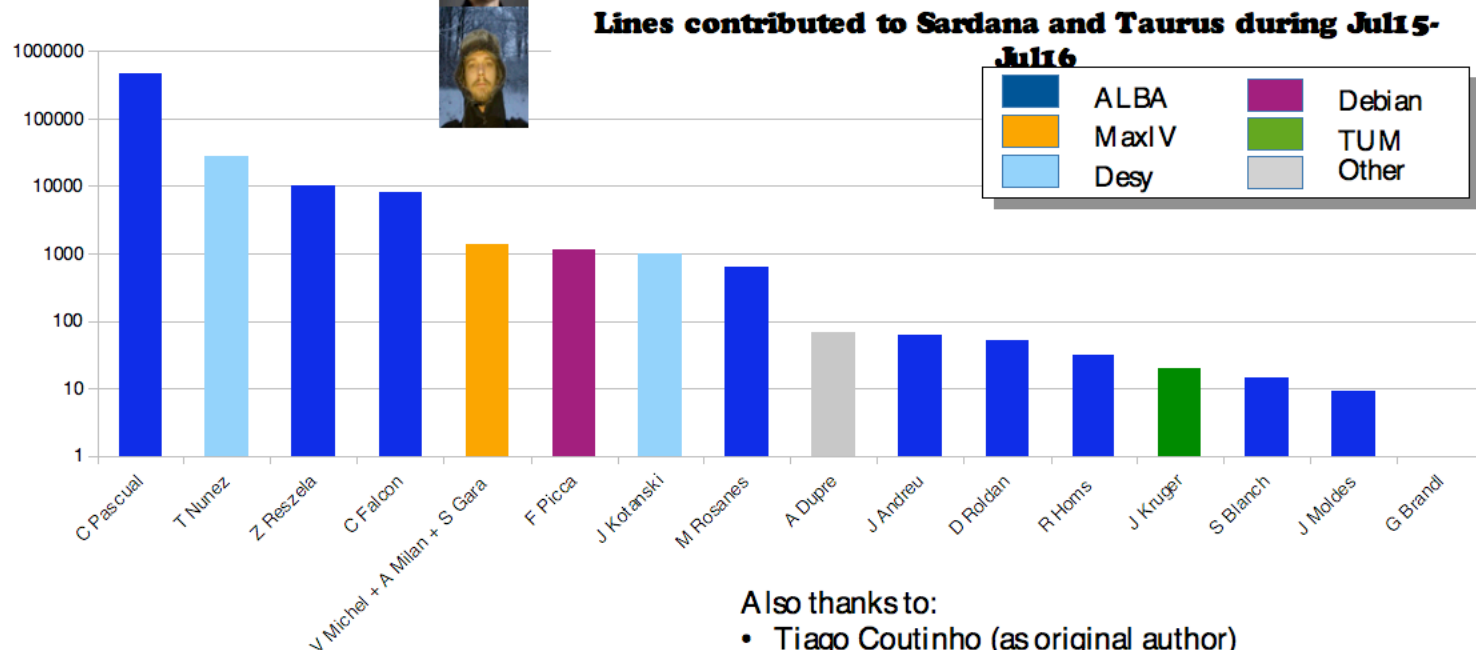
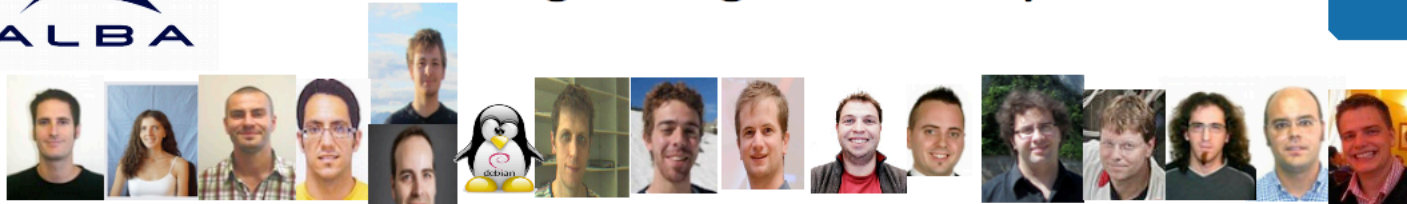
Community Driven SciSoft Projects

C. Pascual-Izarra *et al.*

11th NOBUGS - Copenhagen - Oct 2016

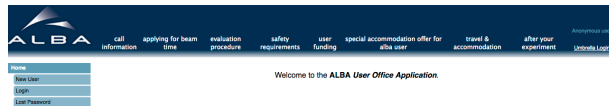


A growing community



Also thanks to:

- Tiago Coutinho (as original author)
- Previous contributors to Sardana and Taurus
- F. Picca, for Debian packaging
- Users, for reporting bugs and requesting features



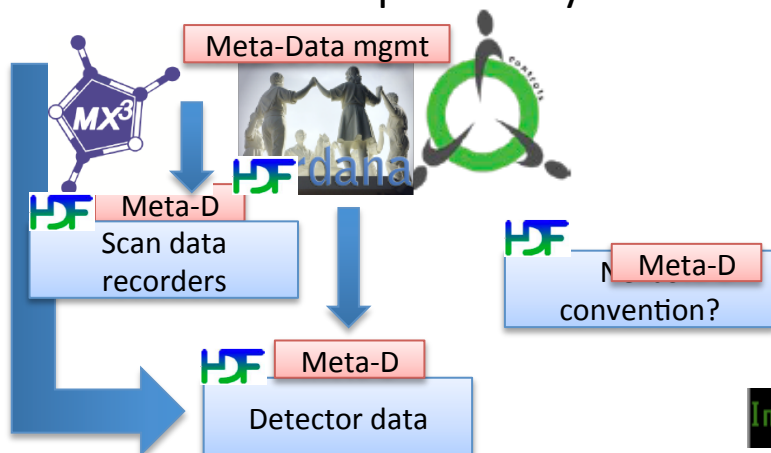
ALBA Beamlines



ALBA User office



Control and data acquisition systems



Topcat



```
In [5]: from __future__ import icat, topcat, IsPyB
```

```
In [4]: from __future__ import icat, topcat, IsPyB
File "<ipython-input-4-fcad061dc35a>", line 1
from __future__ import icat, topcat, IsPyB
SyntaxError: future feature icat is not defined
```

```
In [6]: from esrf ill dls isis maxiv pandata import icat, topcat, IsPyB swcat..
```




```
in [5]: from __future__ import
```

CELLS Apps - TEST

Welcome, dfernandez

Home

MIS Apps filter

Service filter: Knowledge

Search application

Search Local DataSet

Search Remote Dataset

Software Catalogue

DaaS VMs, Containers...

DaaS Private Clouds

DaaS Public Clouds

Topcat @ Diamond

https://topcat.diamond.ac.uk/#/browse/facility/DLS/proposal/N120/investigation/863/

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My Data Browse Search

DIAMOND / Development and application of... / NT20-8 / Dataset

Results: 60

Name	Datafile Count	Create Time	Modified Time
Containing...		From... To...	From... To...
analysed	8 files	2014-04-10 22:36:10	2014-04-10 22:36:10
Kamin-K3_1_dnafiles	1 file	2008-07-24 14:45:54	2010-02-17 19:00:41
Kamin-K3_1_dnafiles-3	1 file	2008-07-24 12:36:01	2010-02-17 19:00:40
trypsin_1_dnafiles-36	1 file	2008-07-23 09:51:50	2010-02-17 19:00:40
trypsin_1_dnafiles-35	1 file	2008-07-22 14:20:34	2010-02-17 19:00:38
Kamin-K1_1_dnafiles	1 file	2008-07-21 12:41:08	2010-02-17 19:00:40
Kamin-K1_1_dnafiles-1	1 file	2008-07-21 12:21:06	2010-02-17 19:00:36
trypsin_1_dnafiles-34	1 file	2008-07-21 12:20:01	2010-02-17 19:00:38
Kamin-K3_1_dnafiles-2	1 file	2008-07-17 12:58:46	2010-02-17 19:00:36
Kamin-K3_1_dnafiles-1	1 file	2008-07-16 17:31:58	2010-02-17 19:00:36
trypsin_1_dnafiles-27	1 file	2008-04-23 13:33:46	2010-02-17 19:00:38
trypsin_10_dnafiles	1 file	2008-04-22 13:20:59	2010-02-17 19:00:41
trypsin_1 dnafiles-26	1 file	2008-04-22 13:20:59	2010-02-17 19:00:38

PaNData Software catalogue

https://software.pan-data.eu/software

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Software

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- LANGUAGES
- PLATFORMS



ABINIT is a suite of programs for materials science, which implements density functional theory, using a plane wave basis set and pseudopotentials, to compute the electronic density and derived properties of materials ranging from molecules to surfaces to solids. It implements density functional theory by solving the Kohn-Sham equations describing the electrons in a material, expanded in a plane wave basis set and using a self-consistent conjugate gradient method to determine the energy minimum. Computational efficiency is achieved through the use of fast Fourier transforms, and pseudopotentials to describe core electrons. As an alternative to standard norm-conserving pseudopotentials, the projector augmented-wave method may be used. In addition to total energy, forces and stresses are also calculated so that geometry optimizations and ab initio molecular dynamics may be carried out. Materials that can be treated by ABINIT include insulators, metals, and magnetically ordered systems including Mott-Hubbard insulators.



ANKAphase processes X-ray inline phase-contrast radiographs by reconstructing the projected thickness of the object(s) imaged. The tool uses a single-distance

- **Access** to data (Data policies). Authentication..
- **Data discovery**. Search procedures, data formats, metadata...
- **Software** for data processing & analysis. Common techniques and common algorithms...
- IaaS/ PaaS / SaaS => PaNDaaS... (data processing/analysis)...
- Services on PanDaaS... OpenLab.



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Apps 📁 finanzas 🗨️ BLISS Talks — ESRF 📁 FHZ 1000 for Linux... 📁 CELLS 📁 Other Bookmarks



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16th International Conference on
Accelerator and Large Experimental
Physics Control Systems

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Thank
you!