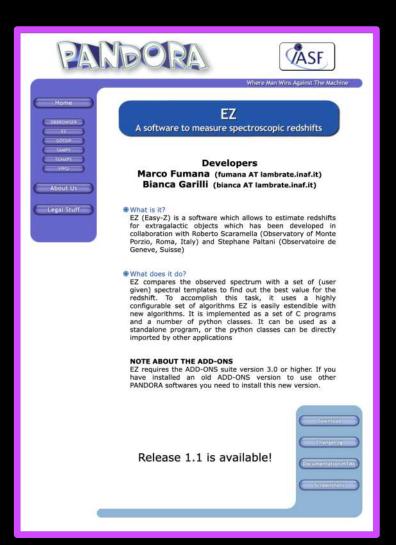
Science Data Segment activities @ IASF Milano

Paolo Franzetti

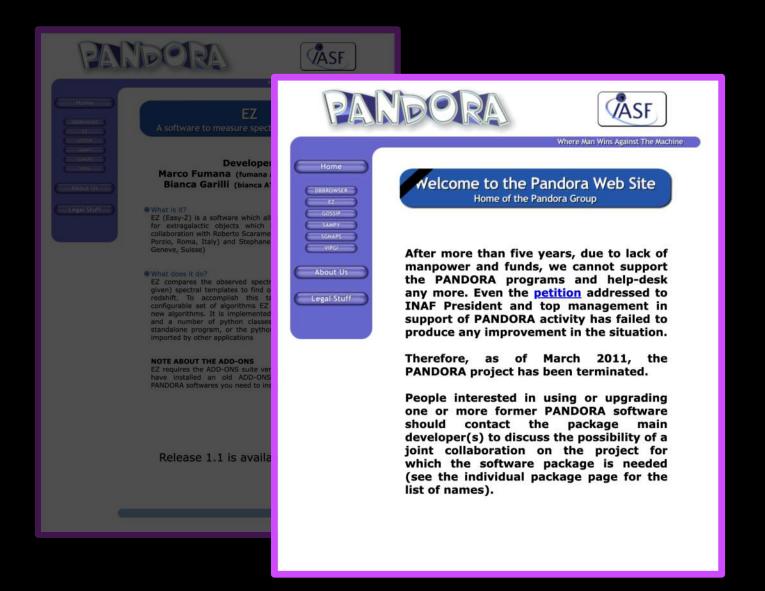
Forum della Tecnologia – 23/6/2022

la storia



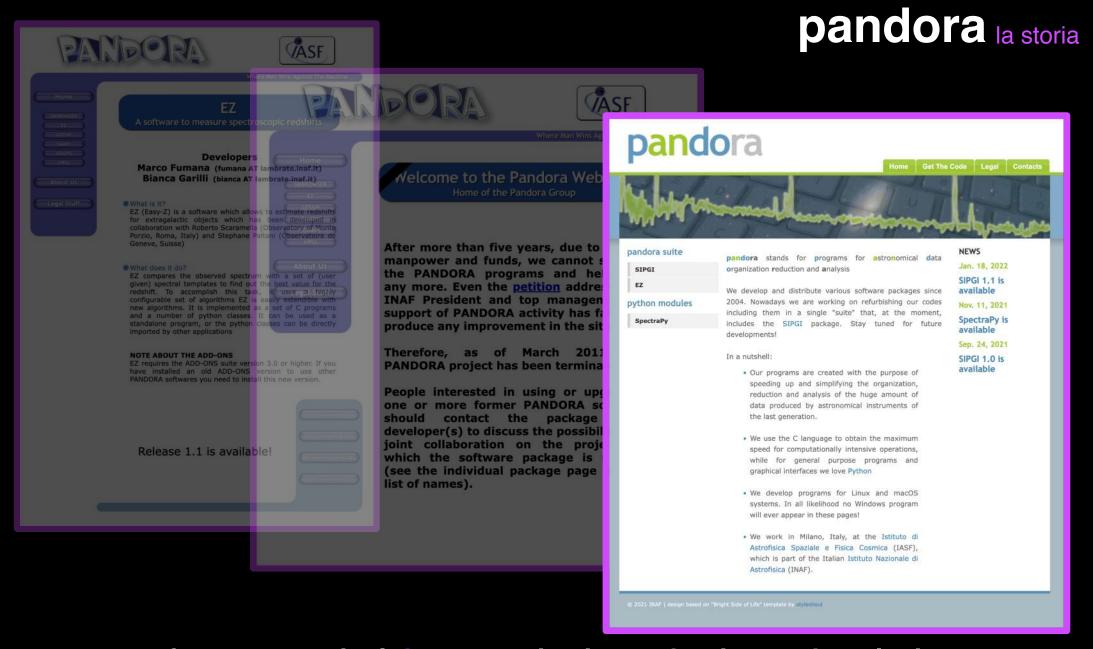
pandora la storia

programs for astronomical data organization reduction and analysis
http://pandora.lambrate.inaf.it/



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the median abstract la storia

In recent years, thanks to the evolution of the astronomical instrumentation, the size of spectroscopic surveys at all redshifts has greatly increased. This trend will surely continue with the next generation of instruments posing new challenges for the management of such huge amounts of data. Information that can be potentially obtained from these surveys is enormous, but to extract it, the data organisation and reduction, the survey advancement monitoring at all stages and the data distribution within the collaboration and to the whole community must be performed at an unprecedented level of efficiency and with minimum human intervention.

the median abstract la storia

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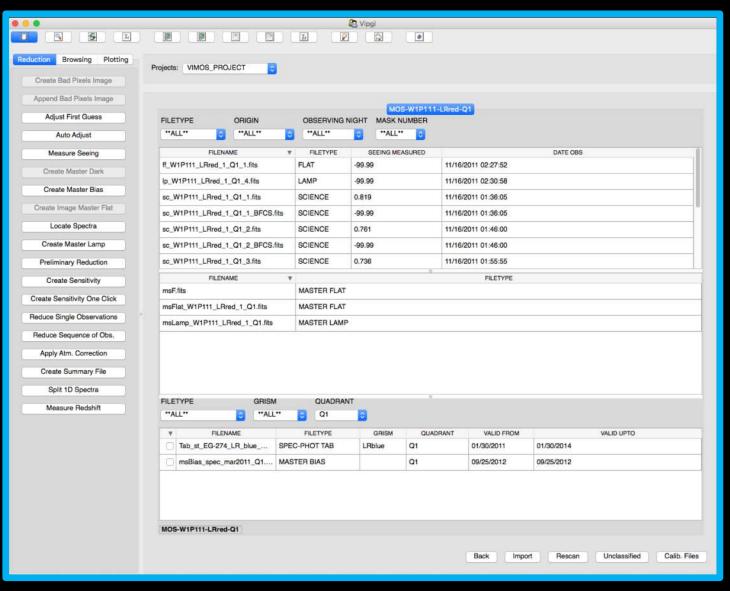
le attività

pipelines le attività

pipelines

- data reduction
- data organization

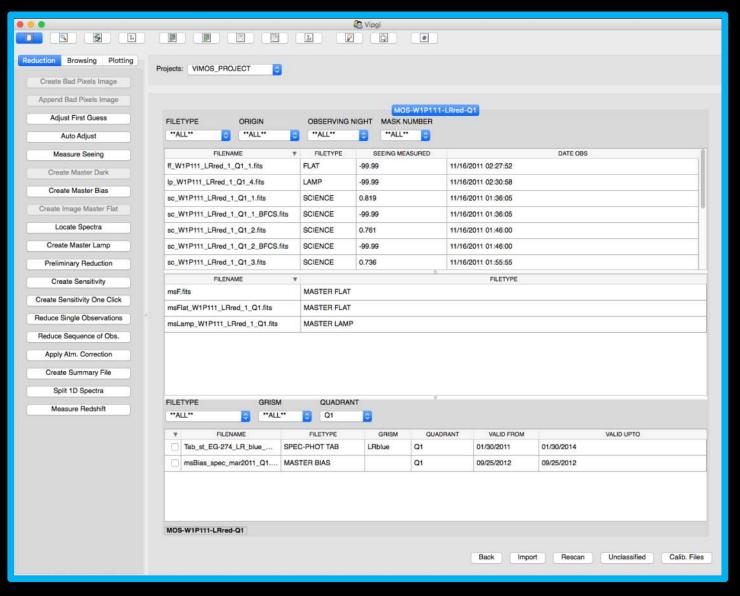
pipelines le attività



VIPGI

Vimos Interactive Pipeline and Graphical Interface

pipelines le attività



SIPGI 1.1

Spectroscopic Interactive Pipeline and Graphical Interface (10.20371/inaf/sw/2021_00002)

database le attività

pipelines

- data reduction
- data organization

database

users

parent catalog(s)

ancillary data

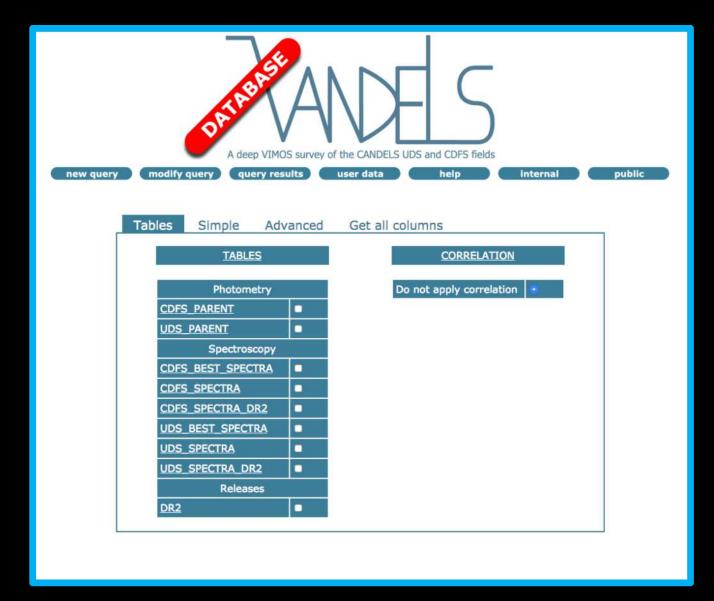
masks / fibers layout

observations

spectra

derived data

database le attività



DART

Database Access and Retrieval Tool

management le attività

pipelines

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- data organization

management

- masks/OBs preparation
- observations monitoring and raw data retrival
- data distribution for measurements
- data distribution for analysis

database

users

parent catalog(s)

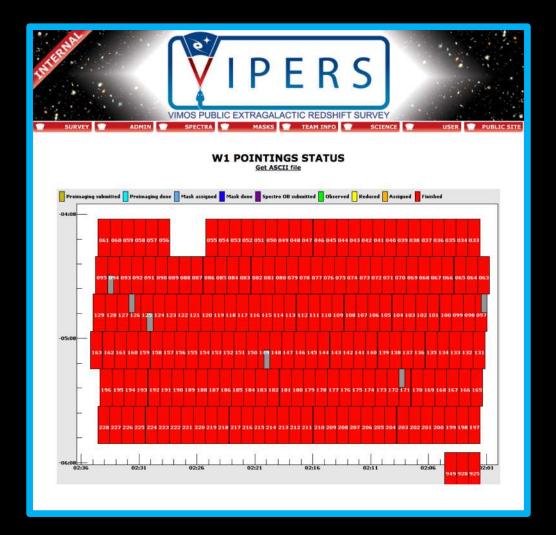
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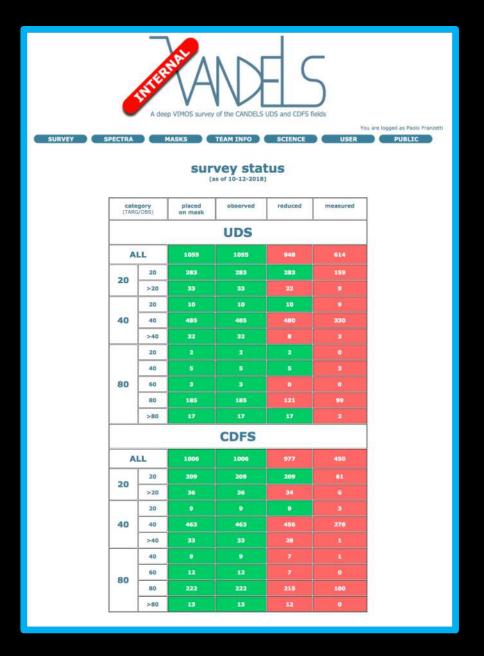
derived data



EASYLIFE

http://vipers.inaf.it
http://vandels.inaf.it

management le attività



data access le attività

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derived data

website

public

- · data releases
- survey info

internal

- database
- wiki /workgroups
- team info
- mailing lists
- measurements assignments
- data releases
- · abstracts / papers

data analysis le attività

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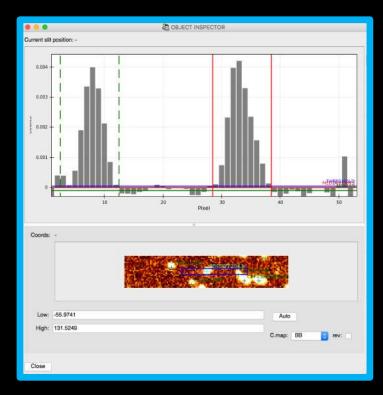
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internal

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- data releases
- abstracts / papers

analysis

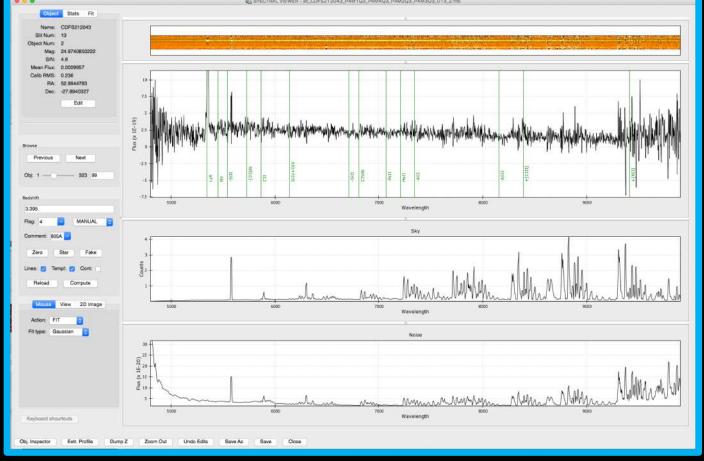
- redshift measure
- lines measure
- SED fitting



EZ 3.1

Easy-Z

data analysis le attività



servizio completo le attività

pipelines

- · data reduction
- data organization

simulations

- etc
- spectra

management

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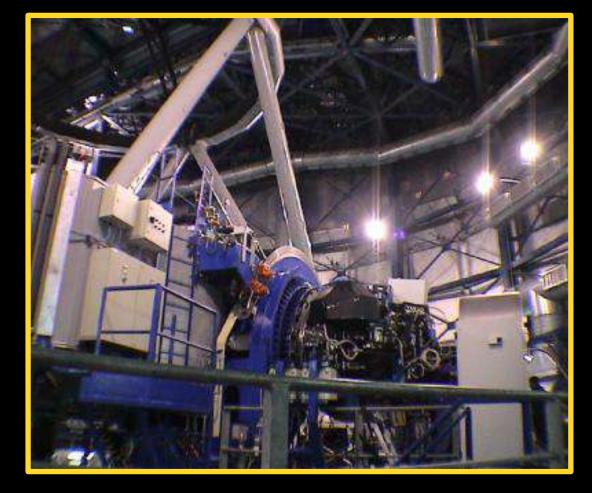
iprogetti

vimos i progetti

surveys

expertises

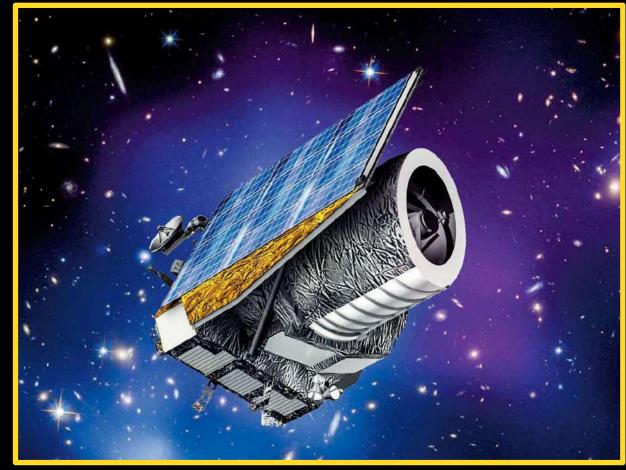
vvds zcosmos vuds vipers vandels pipelines data analysis survey management data access



vvds
zcosmos
vuds
vipers
vandels
NISP survey

expertises

pipelines
data analysis
survey management
data access
simulations





vvds
zcosmos
vuds
vipers
vandels
NISP survey
user data

expertises

pipelines
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survey management
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simulations

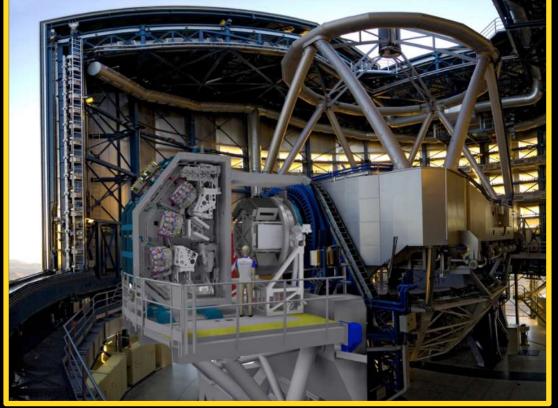


LBT spectroscopic data reduction center

vvds
zcosmos
vuds
vipers
vandels
NISP survey
user data
MOONS GTO survey

expertises

pipelines
data analysis
survey management
data access
simulations
obs. preparation
data flow
path analysis

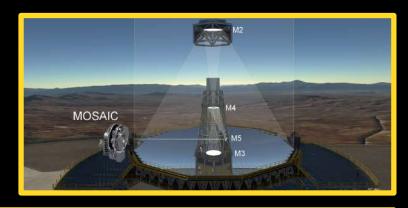


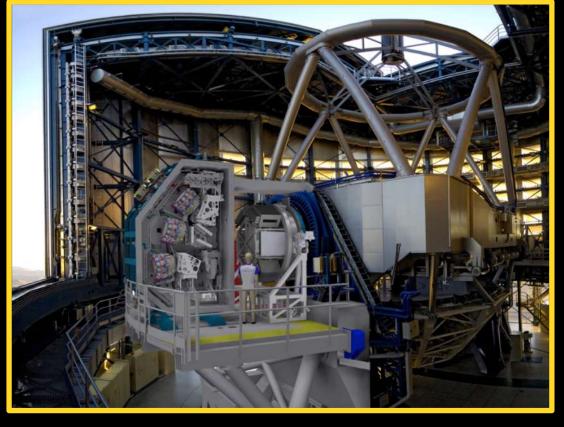
vvds
zcosmos
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NISP survey
user data
MOONS GTO survey
MOSAIC GTO survey

expertises

pipelines
data analysis
survey management
data access
simulations
obs. preparation
data flow
path analysis

mosaic & moons i progetti





le persone

from science to software le persone



science

software

from science to software le persone



science

software