



# A VO-driven National Astronomical Data Grid Initiation in China

**Chenzhou CUI**

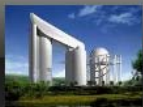
China-VO

National Astronomical Observatories, CAS



# Data Products

- 2-D multi-fiber spectrum images (private)
- 1-D spectra (to the public 18 months later)
- Catalogs (to the public 24 months later)
  
- No image (in principle)



# Large Sky Area Multi-Object Fiber Spectroscopic Telescope

- News
- About
- Raw Data
- Science
- Gallery
- Discuss

## Lamost

- News
- About
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## User login

Username:

Password:

Create new account

Request new password

Home

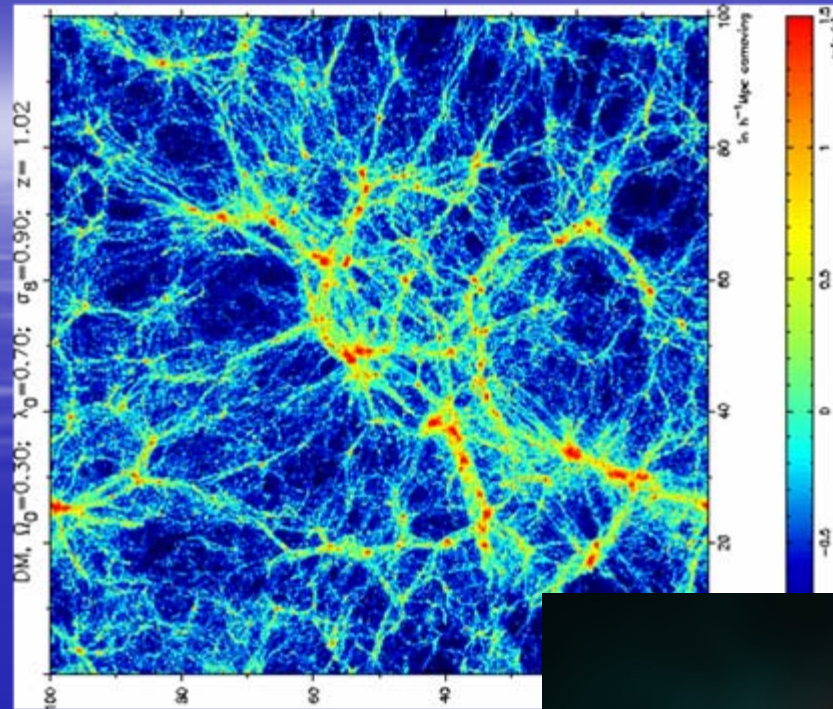
Query: SELECT \* FROM sci\_fits2D2009 WHERE (class = 'r') AND (type = 'o') AND (spectrographID = '2') AND (band = 'r')

[All](#) [None](#)  (Limited upto 10 files during test period.)

	ID	filename	spectrographID	chipID	class	type	bank	plateID	runID	mjd	Time
<input type="checkbox"/>	129	<a href="#">ro-02r-20080930-368-78780739.fit</a>	2	3	raw	o	r	20080930	368	78780739	2008-08-31 04:19:00
<input type="checkbox"/>	160	<a href="#">ro-02r-20080930-377-78780888.fit</a>	2	3	raw	o	r	20080930	377	78780888	2008-08-31 06:48:00
<input type="checkbox"/>	253	<a href="#">ro-02r-20080930-356-78783725.fit</a>	2	3	raw	o	r	20080930	356	78783725	2008-09-02 06:05:00
<input type="checkbox"/>	317	<a href="#">ro-02r-20080930-354-78783639.fit</a>	2	3	raw	o	r	20080930	354	78783639	2008-09-02 04:39:00
<input type="checkbox"/>	348	<a href="#">ro-02r-20080930-355-78783692.fit</a>	2	3	raw	o	r	20080930	355	78783692	2008-09-02 05:32:00
<input type="checkbox"/>	379	<a href="#">ro-02r-20080930-354-78783639.fit</a>	2	3	raw	o	r	20080930	354	78783639	2008-09-02 04:39:00
<input type="checkbox"/>	411	<a href="#">ro-02r-20081001-377-78784128.fit</a>	2	3	raw	o	r	20081001	377	78784128	2008-09-02 12:48:00
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<input type="checkbox"/>	473	<a href="#">ro-02r-20081001-370-78783940.fit</a>	2	3	raw	o	r	20081001	370	78783940	2008-09-02 09:40:00
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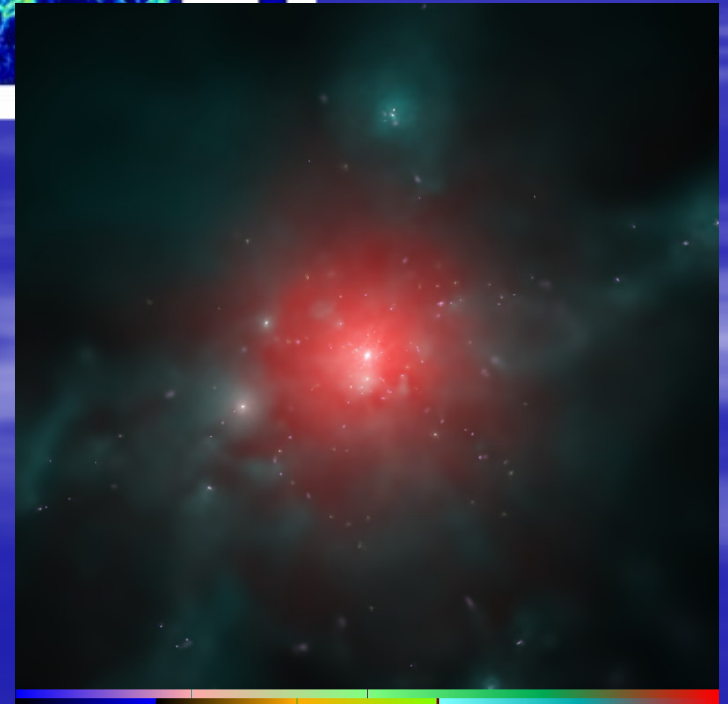


# Cosmology simulation



~80TB

Y.P. Jing, et.al  
Shanghai Astronomical  
Observatory

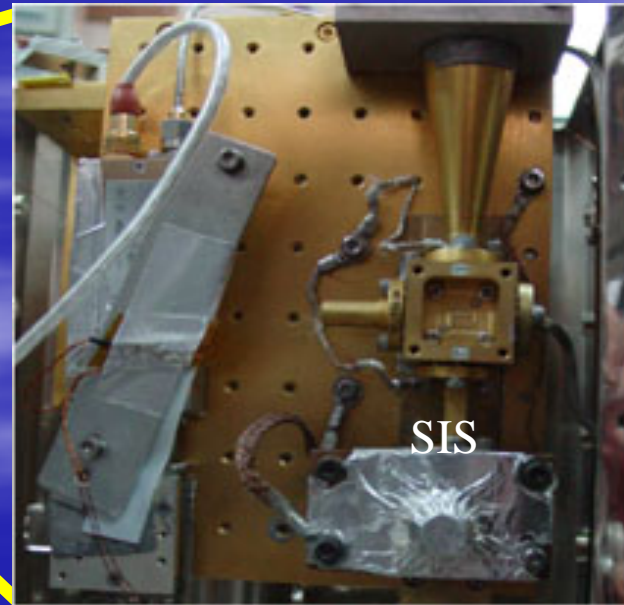
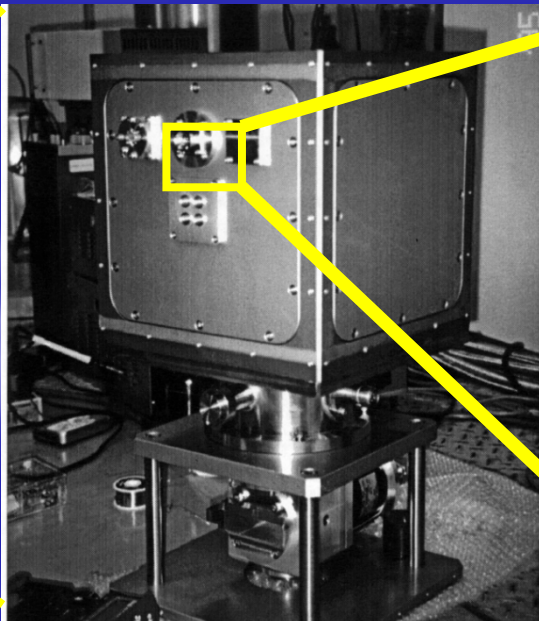


# Qinghai Radio Telescope

Diameter: 13.7m

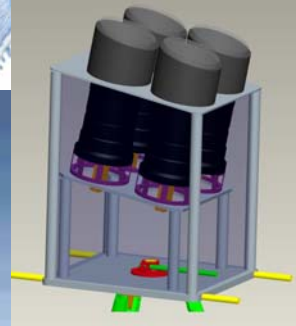
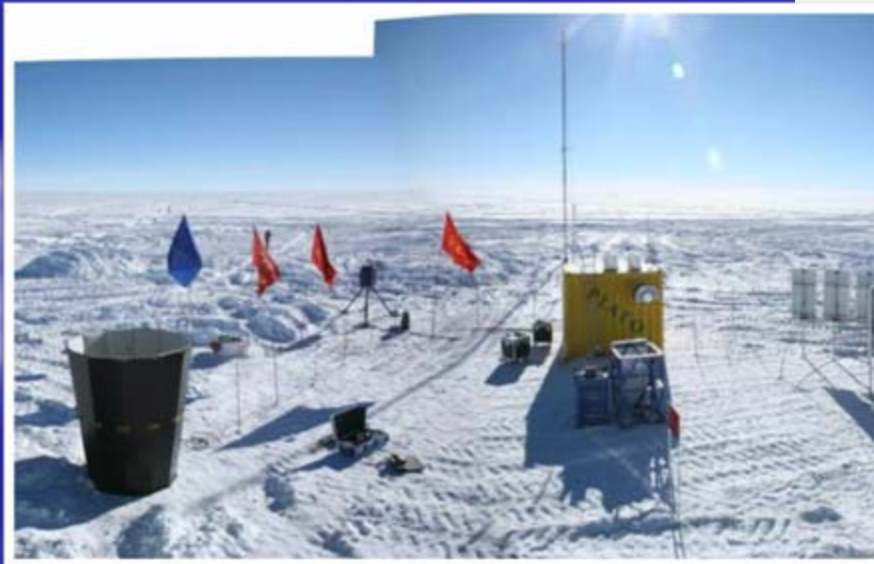
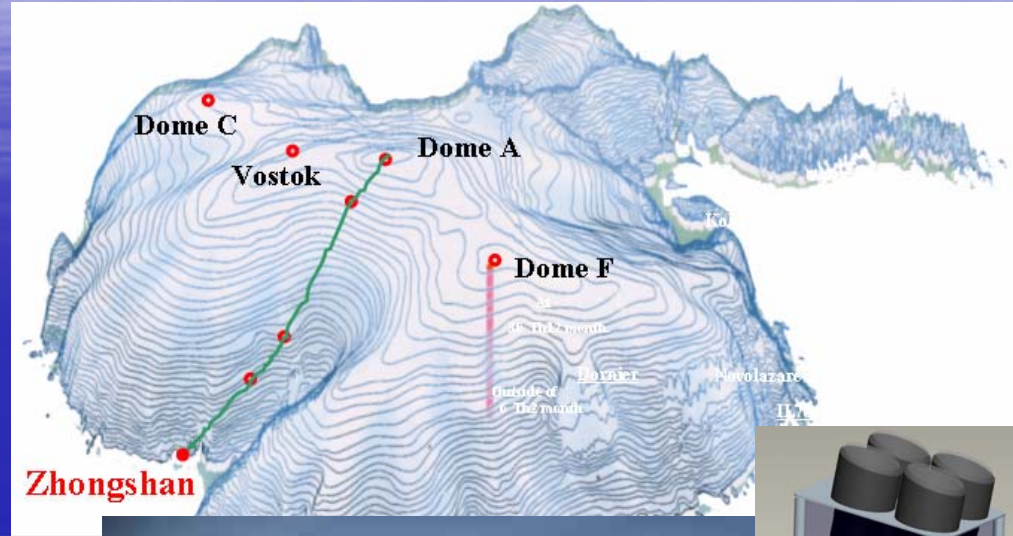
Working band: 3 mm

Data rate: ~1MB/s, ~230K spectra/yr



# CSTAR

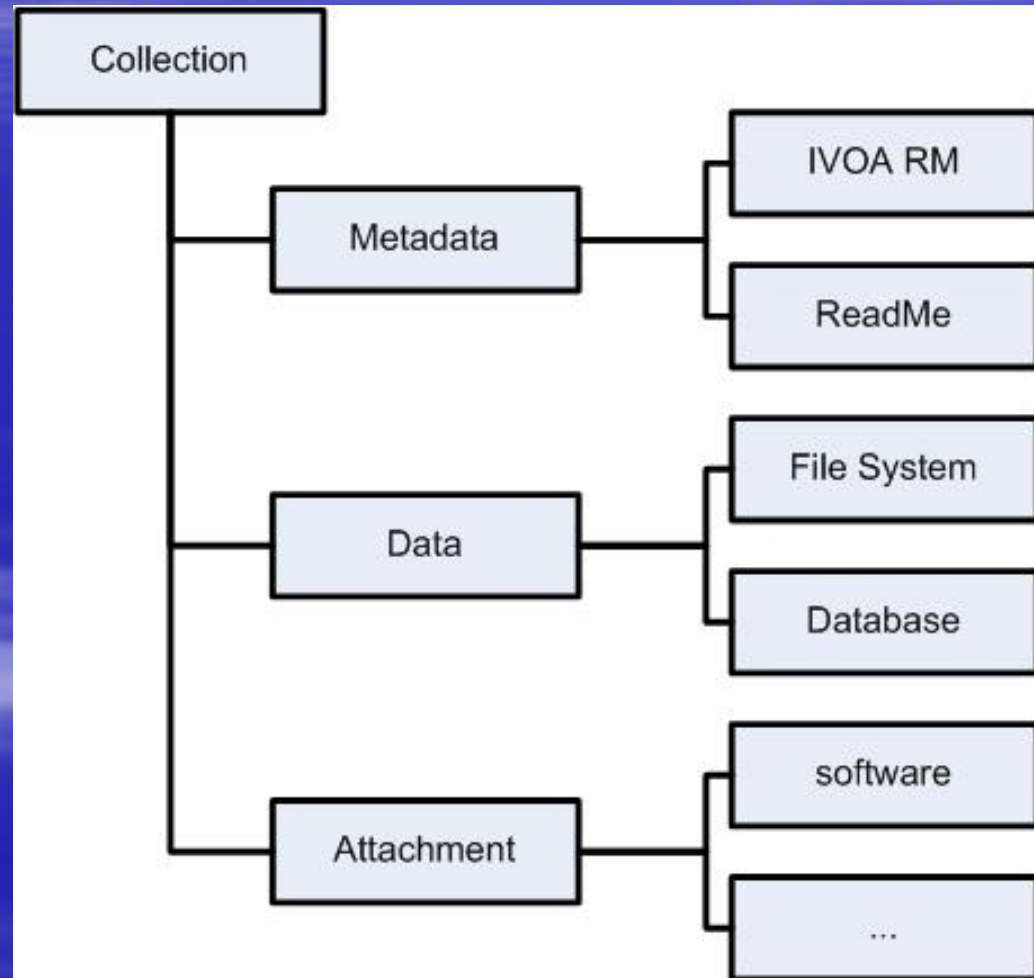
- 4\*15cm telescopes
- Obs. Time: 2008-2009
- >300GB (raw)



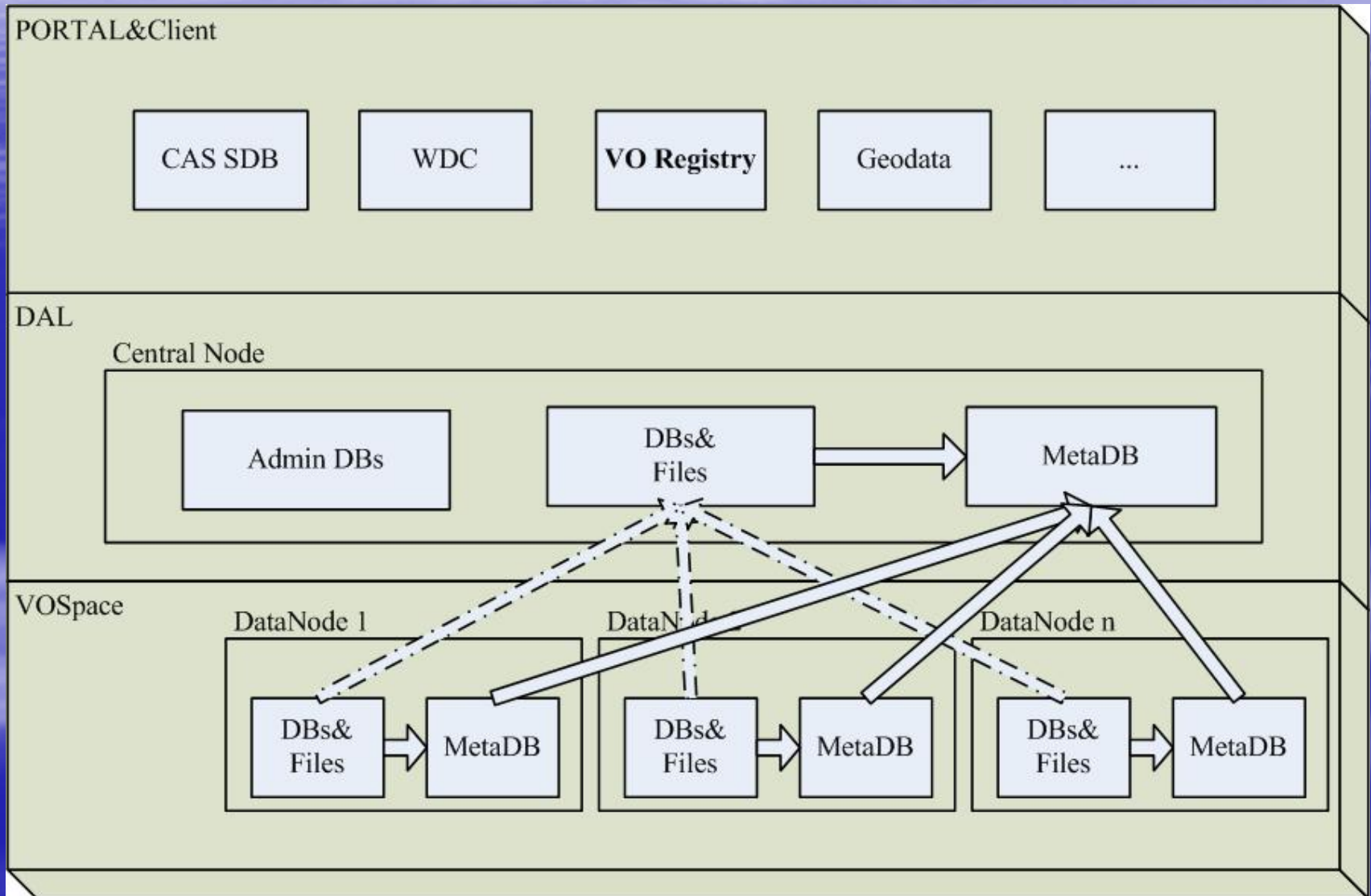


# Simple Dataset Model

- A dataset
  - Metadata
  - Data
  - Attachment

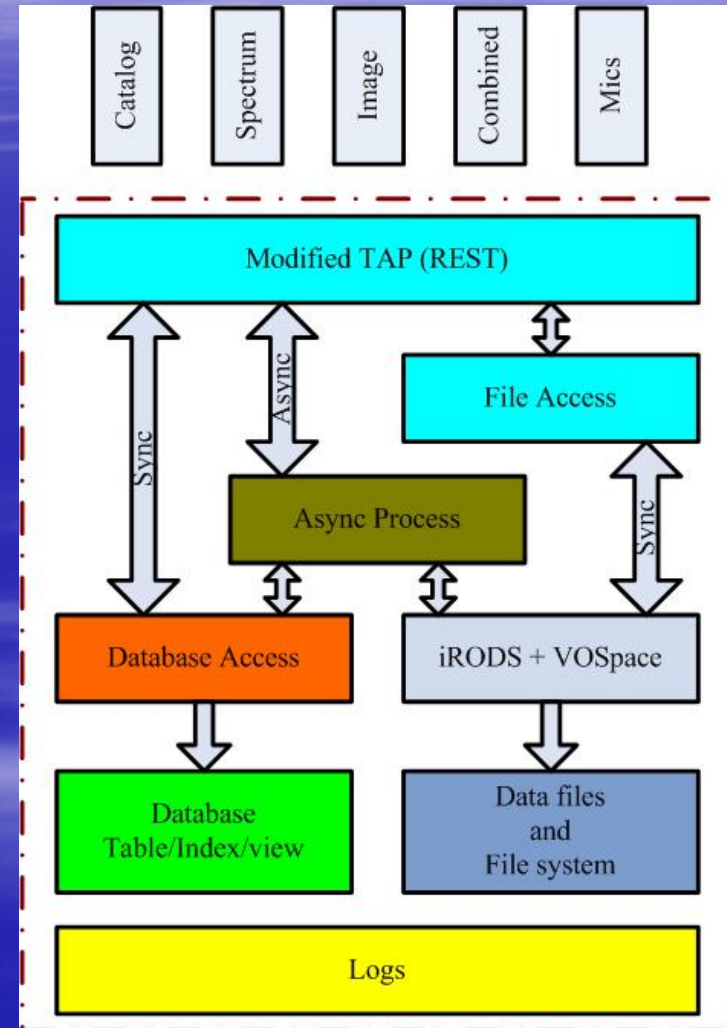
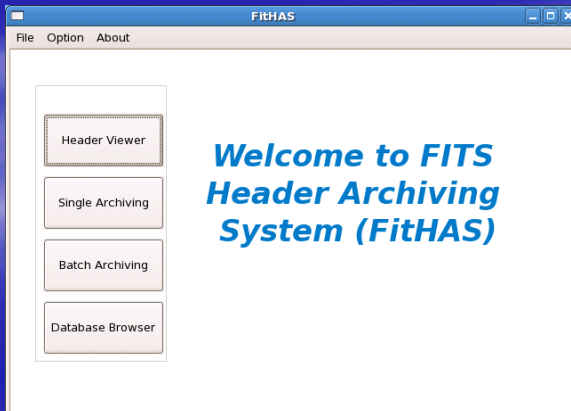


# Architecture



# Components

- High lever data access service
  - Catalogs
  - Files



The FIN