

THE US NATIONAL VIRTUAL OBSERVATORY

ADQL and DAL

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Context

- SkyNode is a SOAP interface accepting ADQL and exposing metadata
- [OpenSkyQuery](#) is a demonstration portal which uses multiple nodes to perform distributed queries
- ADQL may be used by multiple services in DAL. E.g. upgraded CONE/SIAP services.

Virtual Observatory Query Language Layers (Cambridge)

VOQL3
SkyXQuery

XML-based semantically rich query language.
IS THIS DAL ???

VOQL2
SkyQL

Portals combining ADQL services e.g.
OpenSkyQuery

VOQL1
WebServices

Astronomical Data Query Language (ADQL) and
VOTABLE to exchange information between
machines e.g. SkyNode



Pseudo Tables/Virtual Columns

- Yugi Shirasa – Could pretend to have a standard Image Table and do SIAP as an ADQL query
<http://www.ivoa.net/internal/IVOA/IvoaVOQL/VOQL-WG-yshirasa.ppt>

```
Select * from images where  
format='FITS' and region('circle  
j2000 180 23 0.1')
```

- make framework available to data centers which do all of this (M. Hill).