



Astronomy ESFRI & Research Infrastructure Cluster  
ASTERICS - 653477



# The UCD helper dialog inside the TASMAN webapp

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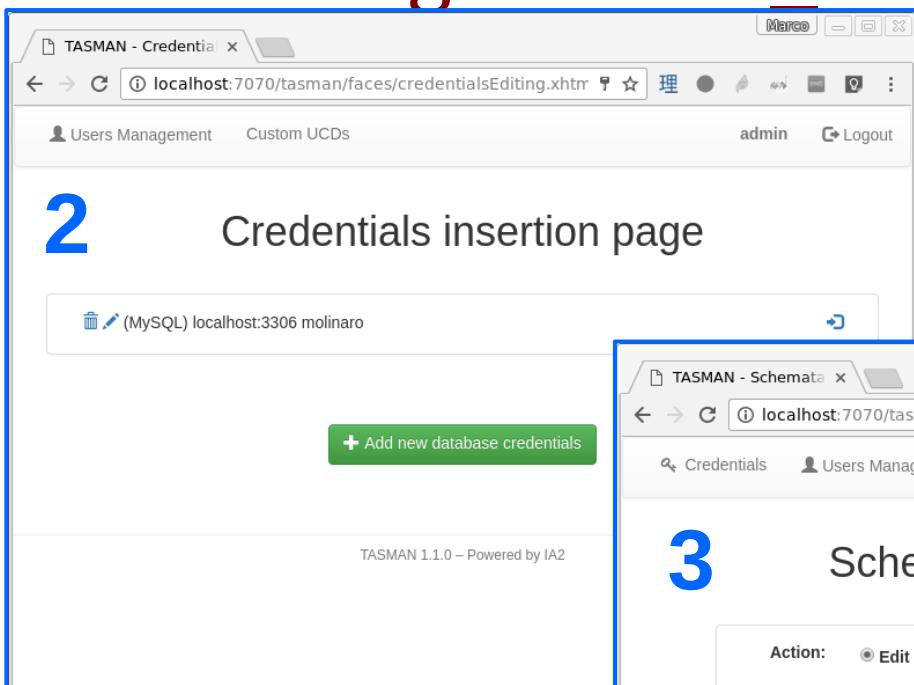
# OUTLINE

- **TASMAN (TAP\_SCHEMA Manager)**
  - UCD dialog
  - VOUnits check
    - How it works
- Points for discussion
  - Derived from TASMAN development/usage
  - Namespaces in UCDs
    - Custom UCDs
  - List maintenance
  - Service availability



# Accessing the TAP SCHEMA

**2** Credentials insertion page



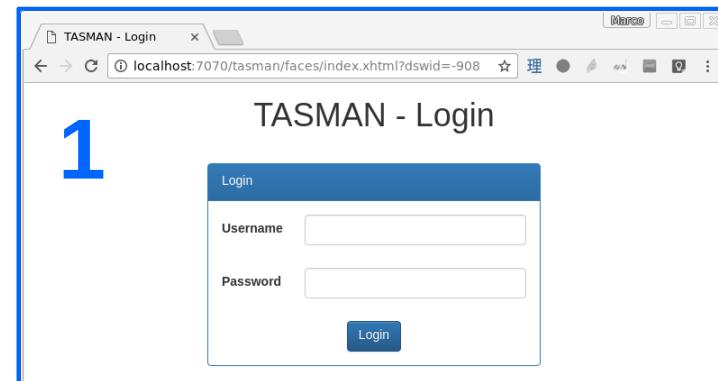
TASMAN - Credentials

(MySQL) localhost:3306 molinaro

+ Add new database credentials

TASMAN 1.1.0 – Powered by IA2

**1**



TASMAN - Login

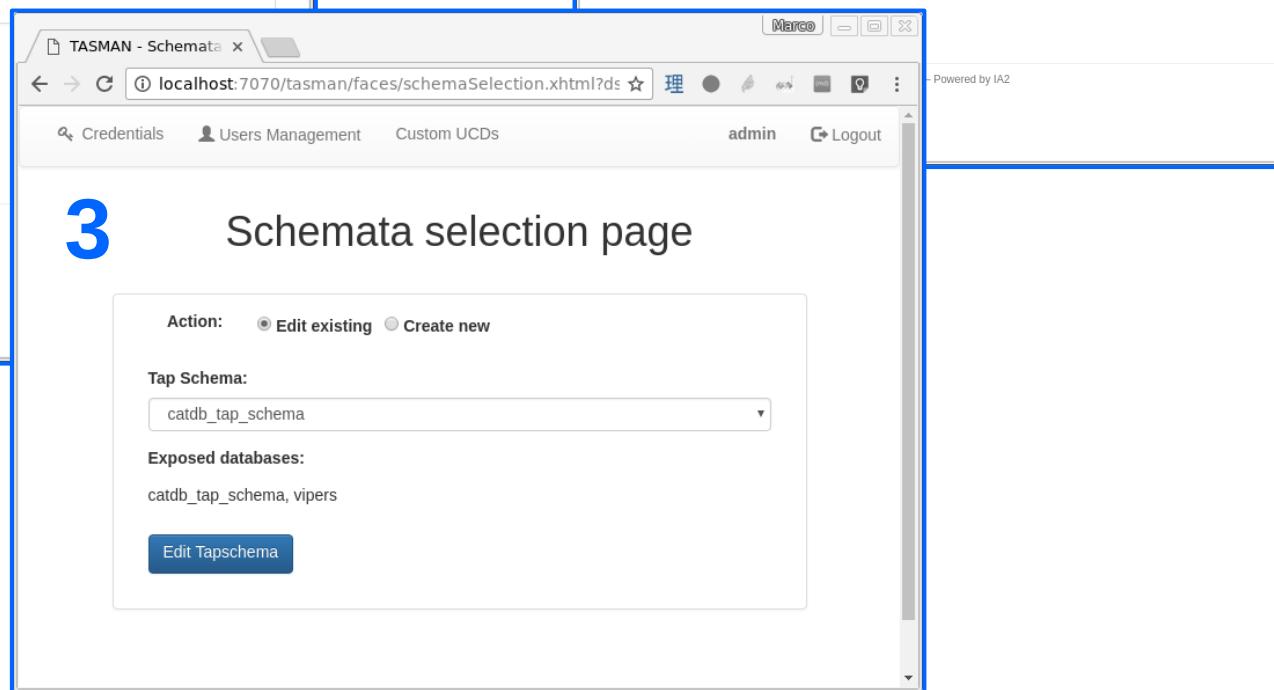
Login

Username

Password

Login

**3** Schemata selection page



Action:  Edit existing  Create new

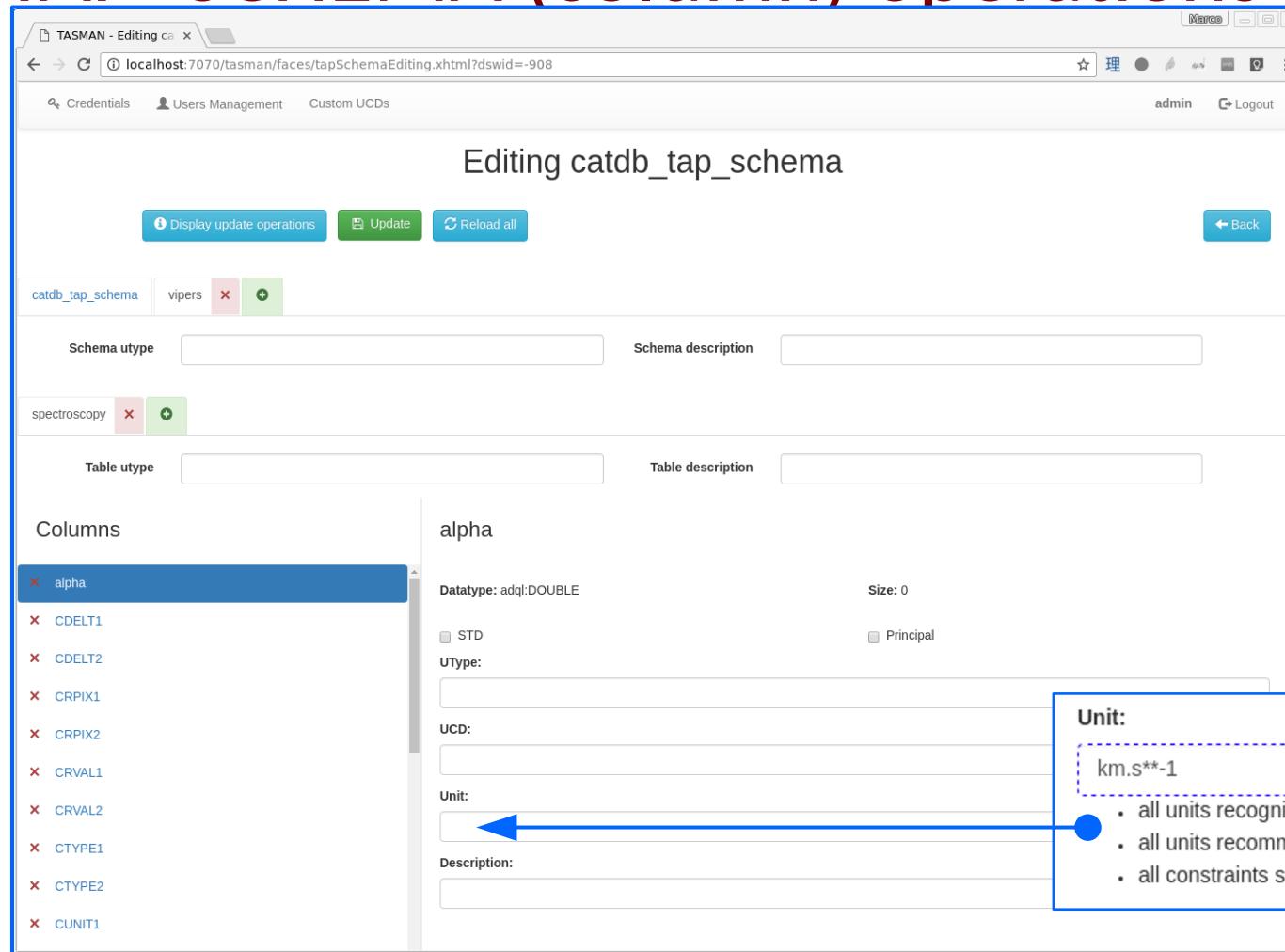
Tap Schema:

Exposed databases:

catdb\_tap\_schema, vipers

Edit Tapschema

# TAP SCHEMA (column) operations



Editing catdb\_tap\_schema

catdb\_tap\_schema vipers x +

Schema utype:  Schema description:

spectroscopy x +

Table utype:  Table description:

Columns

- x alpha
- x CDELT1
- x CDELT2
- x CRPIX1
- x CRPIX2
- x CRVAL1
- x CRVAL2
- x CTYPE1
- x CTYPE2
- x CUNIT1

Datatype: adql:DOUBLE      Size: 0

STD       Principal

UType:

UCD:

Unit: km.s\*\*-1

Description:

VOUnits



# UCD dialog: suggest

## UCD Search Dialog

Search by description  Manual insertion

### Description:

main galactic latitude

Selected UCD: pos.galactic.lat;meta.main

### Other suggested UCD:

Word	Definition
<input type="checkbox"/> pos.galactic.lat	Latitude in galactic coordinates
<input type="checkbox"/> pos.earth.lat	Latitude on Earth
<input type="checkbox"/> pos.galactic.lon	Longitude in galactic coordinates
<input type="checkbox"/> meta.main	Main value of something

Rebuild UCDs

Selectable UCDs:

- pos.earth.lat
- pos.earth.lat;meta.main

Other suggested UCD:

Word	Definition	Flag
<input type="checkbox"/> pos.galactic.lat	Latitude in galactic coordinates	Q
<input checked="" type="checkbox"/> pos.earth.lat	Latitude on Earth	Q
<input type="checkbox"/> pos.galactic.lon	Longitude in galactic coordinates	Q
<input checked="" type="checkbox"/> meta.main	Main value of something	S

Rebuild UCDs

[Close](#) [Save changes](#)

### Description:

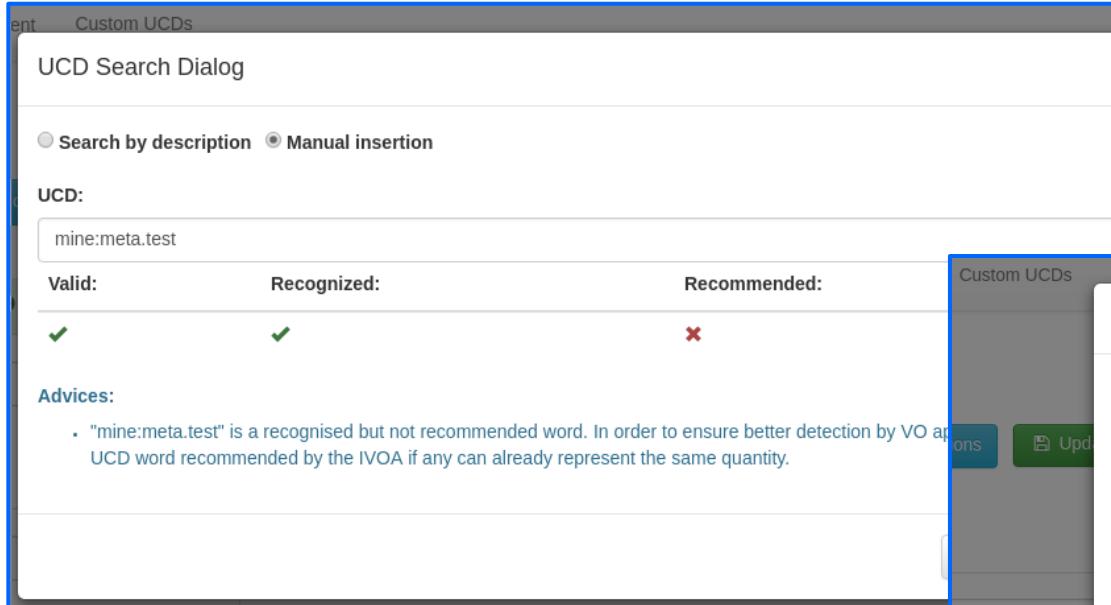
main galactic latitude

IA2 ReST  
over  
CDS SOAP  
services

M.Molinaro – TASMAN UCD Helper - IVOA Northern Spring Interop 2017 – Semantics – Shanghai 16 May 2017

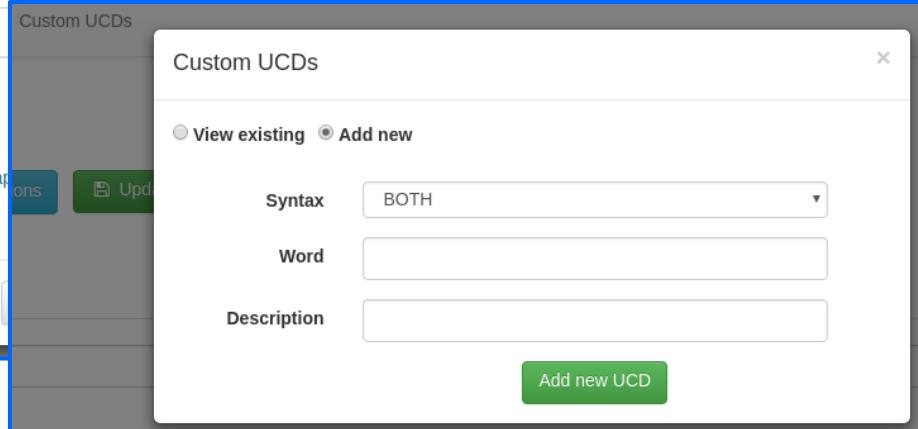


# UCD dialog: manual/custom



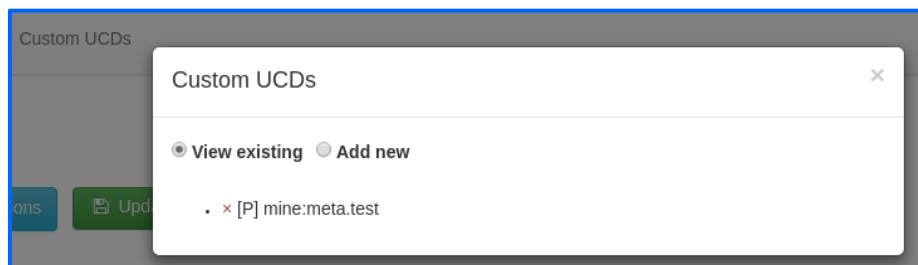
The screenshot shows the UCD Search Dialog with the following details:

- Search by description** (radio button selected)
- Manual insertion** (radio button)
- UCD:** mine:meta.test
- Valid:** ✓ (green checkmark)
- Recognized:** ✓ (green checkmark)
- Recommended:** ✘ (red cross)
- Advices:**
  - "mine:meta.test" is a recognised but not recommended word. In order to ensure better detection by VO applications it is recommended to use a standard IVOA UCD word recommended by the IVOA if any can already represent the same quantity.



The screenshot shows the Custom UCDs dialog with the following settings:

- Syntax:** BOTH
- Word:** (empty input field)
- Description:** (empty input field)
- Add new UCD** button



The screenshot shows the Custom UCDs dialog with the following list of entries:

- View existing (radio button selected)
- Add new (radio button)
- mine:meta.test [P] (with a red cross icon)

**UCD validation**  
**“ucidy” lib**



# Custom UCDs & namespaces

- Default (implied) `ivoa:` namespace
- Custom (discouraged) namespace (e.g. `my:`)
- Combining: what if/how to
  - `pos.eq.ra;my:meta.test`
  - `my:meta.new;ivoa:em.opt.V`
- Should the specification be more explicit than
  - “The use of namespaces, indicated by the presence of a colon in the word, is possible, but should be avoided as far as possible.”

?



# UCD List Maintenance

- Work In Progress...
- Could be useful to have
  - 2 lists
    - 1 RECOMMENDED
    - 1 Draft/Proposed
  - Easily consumable
    - $E | \text{phot.flux}$  | Photon flux
    - ...
    - [ {"flag": "E", "word": "phot.flux", "description": "Photon flux"}, {...}, ... ]
  - Always available
    - May require CVS on the draft list?



# UCD Services Availability

- Currently using a ReST wrapper service on top of
  - <http://cdsbs.u-strasbg.fr/axis/services/UCD>
    - Hi there, this is an AXIS service!
- described at
  - <http://cds.u-strasbg.fr/resources/doku.php?id=ucd>
    - Assign
    - Suggest
    - Explain
    - Validate
- Service update/upgrade?
- Mirroring?



# CREDITS

- Sonia Zorba: main tool developer
- VOUnits validation: Norman Gray's unity
  - <https://bitbucket.org/nxg/unity>
- UCD validation: Grégory Mantelet's ucidy
  - <https://github.com/gmantele/ucidy>
- UCDs interactively assigned using
  - CDS UCD SOAP services
    - More or less following what happens on page
    - <http://cds.u-strasbg.fr/UCD/cgi-bin/descr2ucd>