



# ObsCore extension for Radio

**Status and steps forward**

**Mark Kettenis, November 2024, Malta**

# Status

- Consensus about parameters
  - Some suggestions for better names have been made
- Document changed from WD to PR before the summer
  - Removing f\_min and f\_max as alternatives for em\_max and em\_min
    - f\_resolution remains
  - Settling on separate extension table
    - Leaving open the option for a joined view
- Did not move to RFC yet
  - Further questions came up regarding combining extensions
    - Overlap in parameters
    - Discovery of extensions through registry
  - Alignment with upcoming CAOM proposal

# Co-existence with other ObsCore extensions

- High-Energy
  - Additional Obscure parameters identified in HE note presented at this interop
  - Includes overlap with Radio extension
    - s\_fov\_min, s\_fov\_max, s\_resolution\_min, s\_resolution\_max
- Time-Domain
  - May add parameters like t\_exp\_min, t\_exp\_max
- General
  - Rename some parameters to be radio-agnostic:
    - instr\_ant -> instr\_tel?

# Moving extensions back to “core”

## After Obscore Extension for Radio data Version 1.0

The following query would break:

```
SELECT core.obs_publisher_did, core.s_fov, radio.s_fov_min  
FROM ivoa.ObsCore AS core NATURAL JOIN ivoa.ObsCoreRadio AS radio
```

But this equivalent one would not:

```
SELECT obs_publisher_did, s_fov, s_fov_min  
FROM ivoa.ObsCore NATURAL JOIN ivoa.ObsCoreRadio
```

Is that a problem?

Or is it better to drop these from radio extension pending a core update?

# Extension discovery

- PR uses table\_utype and/or schema\_utype for discovery
- This should work as long as we do use a separate table?
- But not for views that combine multiple extensions?
- Alternative ways for richer table metadata have been proposed
  - e.g. by firefly developers
  - Out of scope for version 1.0 of the extension?
- Some last-minute changes by Louys and Bonnarel:
  - Remove schema\_utype
  - Include joined view with ivoa.obscore in profile?

# Next steps

- Some proposals for better naming of parameters
  - `s_resolution_{max|min}` -> `s_resolution_{worst|best}` (Louys and Bonnarel)
  - `s_maximum_angular_scale_{min|max}` -> `s_largest_angular_scale_{min|max}` (Louys and Bonnarel)
  - `instr_ant_xxx` -> `instr_tel_xxx` (Servillat)
- Some textual improvements (Louys and Bonnarel)
- Some document fixes
  - Removal of coverage map link that was left behind
- Check CAOM alignment?
  - All issues resolved?
- Can we move to RFC after that?