The role of scientists in the CDS workflow

Scientific diversity at CDS

- **Information discovery and processing**
  Ontology, semantics, resource discovery — S. Derrière, F. Genova
- **Stellar astronomy**
  Circumstellar matter, AGB/post-AGB stars, surveys — C. Loup
- **Galactic astronomy**

  Binary stars, X-ray surveys — A. Nebot
  ISM, star formation — L. Cambrésy
  Galactic disk formation, surveys, simulations — A. Siebert
- **Extragalactic astronomy**

  Epoque of reionization, nearfield cosmology — P. Ocvirk
  AGNs, VO science — M. Allen
  ISM, nearby galaxies — C. Bot
  Cluster galaxy evolution, gal. centers, GPS sources — B. Vollmer

Scientific interactions

- **with the « Equipe Galaxies »:**

    common projects, common meeting

- **with the « Equipe Hautes Energies »:**

    common projects, exchange of expertise

- **participation in large projects:**

    XMM, Planck, Herschel, RAVE, GAIA

- **wide scientific collaborations**

- **use of large telescopes and surveys:**

    VLT, HST, Spitzer, JVLA, 2MASS, SDSS, IRAS,

    Herschel, Planck

The role of CDS scientists

- part of integrated team together with documentalists and engineers
- selection and validation of scientific data
- validation of the data description
- scientific advice for / supervision of the development and evolution of CDS services

Scientific input

All CDS scientists contribute their

- expertise
- view on astronomy and information science
- experience with CDS services
- new ideas

All CDS scientists contribute to

- the daily workflow/data ingestion
- the development and evolution of the CDS services

Scientific responsibilities

- SIMBAD
- VizieR
- Aladin
- Nomenclature
- Dissemination
- Special operations

C. Loup, L. Cambrésy, A. Siebert, C. Bot, A. Nebot, P. Ocvirk, B. Vollmer

P. Ocvirk, C. Bot

C. Bot, A. Nebot

B. Vollmer

A. Nebot, C. Bot, S. Derrière

A. Siebert, L. Cambrésy

- software testing
- answer scientific questions
- make corrections
- supervise and validate data ingestion
- weekly meetings to prioritize VizieR catalogues for the ingestion catalogued sources into SIMBAD

- software testing
- answer scientific questions
- supervise data ingestion
- validate data description (metadata)
- validate ReadMe files
- separate line: large catalogues

- software testing
- answer scientific questions
- scientific communication
- scientific interface with projects/external services

Cross-match

- software testing
- answer scientific questions
- choice of relevant catalogues

Nomenclature

- answer scientific questions
- supervise the acronym creation and ingestion process
- validate the content of the dictionnary of nomenclture
- give instructions for cross-identification and associated data -> SIMBAD

Conclusion

The science team

- is well embedded in the integrated CDS team
- covers a large range of astrophysical subjects
- does and has to do active science
- gives scientific guarantee to the CDS services