Division B Functional Working Group: The Virtual Observatory

Annual Report

Bruce Berriman (Chair)
April 10, 2023

- The WG was active in the Division B meeting at the IAU General Assembly, August 2022.
  - Berriman was Co-Chair of "Session 3A: New Facilities and Growing Archives," and of "Session 5A: Laboratory Astrophysics Databases: from the provider to the user: encouraging FAIRness."
  - Berriman gave two presentations at the Division B meeting:
    - "Enabling Science with Virtual Observatory," at the Division B Facilities, Technologies and Data Science meeting
    - "FAIR principles in IVOA," at the Division B Laboratory Astrophysics commission meeting.
  - WG members were co-authors in two papers resulting from presentations at the meeting:
    - "Atomic and Molecular Databases: Open Science for a sustainable world." Dubernet et al. 2022. Submitted to Proceedings of IAU Symposium 371 (review paper).
    - "Laboratory Astrophysics Data Working Group IAU 2022 GA session." Dubernet et al. 2022. Submitted to Proceedings of IAU Symposium 371.
  - Berriman gave the presentation "Future Role of Archives: IVOA perspective" at the Executive Committee Working Group : global coordination of ground and space meeting.
- The WG submitted a proposal to hold Focus Session at IAU GA in South Africa 2024, titled "Community Engagement and Open Science in the Virtual Observatory." The proposal has been endorsed by six IAU Divisions.
- Berriman organized a session on "IVOA Engagement with the IVOA" at the Spring 2022 Virtual IVOA Meeting. Presentations, given by invitation, were:
  - Gabriele Giovannini - "IAU Division B structure and possible connections with IVOA"
  - Marie-Lise Dubernet - "FAIR usage of Atomic and Molecular Data in Astro applications : Role of IVOA"
  - Vanessa McBride - "The IVOA in support of astronomy for development"
  - Chenzhou Cui - " VO resources for astronomical education and collaboration prospects"

The outcome of the meeting was a letter written to the IAU President describing how the IAU and IVOA can best collaborate.