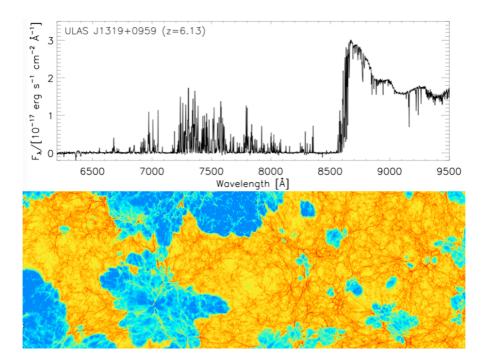
2022 Annual Report on the activity of IAU Commission J2

Inter-Division B-H-J Commission Intergalactic Medium



President: Celine Peroux
Vice-President: Benedetta Ciardi
Secretary: James Bolton
At-large members: Wei Cui, Simon Morris, Emma Ryan-Weber, Matteo Viel
Past President: Valentina D'Odorico
Advisor: Avery Meiksin

April 2023

Scientific Background

Commission J2 seeks to bring together members of the scientific community who study the properties of intergalactic gas and their interactions with galaxies and Active Galactic Nuclei (AGN). The Commission encompasses four research themes: the structure of the Intergalactic Medium (IGM), the ultra-violet metagalactic background, the interaction between galaxies and the AGN with the Intergalactic Medium, and the Epoch of Reionization.

The purpose of the Commission is to provide a forum for exchanging information of use to its members specific to the IGM, to coordinate discussions and planning papers with other Commissions relating to the IGM, and to assist in coordinating meetings on the IGM.

Commission J2 Activities

The new commission meets regularly since Fall 2021 and keeps a document recording minutes of each of these meetings. This year again, we have been advertising the division to astrophysics communities in most countries to increase the membership, including among younger generation researchers. The commission has kept an up-to-date document aimed at providing various national and international road map exercises an increased visibility of Intergalactic Medium science. The commission has fully revisited its IAU web page, including maintaining an up-to-date list of relevant meetings. Finally, the commission has applied to organise a Focus Meeting entitle "Connecting via the Intergalactic Medium" at the 2024 IAU General Assembly in Capetown, South Africa.

Contribution to Division J

The commission J2 president has attended many of the monthly Division J meetings. As part of this, she has contributed to the two rounds of selection of the IAU PhD prizes for 2022. In addition, she took part in assembling the agenda of the 2022 IAU General Assembly Division Day by identifying and encouraging young scientists active in the field to apply. Finally, she has participated to the selection of the IAU Letter of Intent for 2024.