

Report on the activity of IAU Commission J2

PRESIDENT: Valentina D'Odorico

VICE-PRESIDENT: Hsiao-Wen Chen

ORGANIZING COMMITTEE: James Bolton, Benedetta Ciardi, Nissim Kanekar, Celine Peroux.

Division J2 is devoted to studies of the intergalactic medium (IGM) with all approaches: observational, theoretical and numerical. The main topics can be divided into 4 items: i) the structure of the IGM; ii) the ultra-violet metagalactic background; iii) the interaction of galaxies and Active Galactic Nuclei with the IGM; iv) the epoch of Reionization.

During the past year, as a president of the commission I have participated to several meetings organized by the president of Division J (Galaxies and Cosmology, president D. Burgarella) for the selection of:

- IAU Symposia for 2020
- IAU PhD prizes 2019
- IAU Symposia and Focus meetings for 2021
- IAU PhD prizes 2020.

Then I have collaborated with Dr. Smith-Spanier for the update of the Commission web page.

Together with the other members of the organizing committee we had considered the hypothesis of presenting a request for a symposium at the IAU GA of 2020, but then we decided not to do it because of the large number of meetings dedicated to topics related with our commission already in program.

Meetings

This is a list of meetings related with the IGM physics that were carried out in 2019. The list does not mean to be complete but just an indication of the very high number of meetings on this topic.

Baryons in galaxies and beyond, February 17-19 2019, IPM Tehran IRAN

Zoom-in and out: from the Interstellar medium to the Large Scale Structure of the Universe, June 3-28, NORDITA, Stockholm, SWEDEN

What matter(s) between galaxies: unraveling the knots in the cosmic web, June 3-7, Abbazia di Spineto, ITALY

“Barefoot EoR”: the first billion years of the Universe, July 14-19, Fitzroy Island Resort, Queensland, AUSTRALIA

Extremely big eyes on the early Universe, September 9-13, Rome, ITALY

CGM Berlin 2019, October 3-5, Berlin, GERMANY.