

**COMMISSION H1**  
**THE LOCAL UNIVERSE**  
(L'UNIVERS LOCAL)

PRESIDENT Grazina Tautvaisiene

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**ANNUAL REPORT 2021-2022**

The IAU Commission H1 “The Local Universe” presently unites 343 members. Our Commission focuses on studies of the Milky Way and nearby galaxies, where we can resolve galaxies into stars. Extensive observational and theoretical research is going on in order to understand galaxy formation history and evolution.

We expect the revolutionary scientific discoveries from the Webb Space Telescope, launched on December 25, 2021 by the NASA and its partners, ESA (European Space Agency) and the Canadian Space Agency. Thousands of engineers and hundreds of scientists worked to make Webb a reality, along with over 300 universities, organizations, and companies from 29 U.S. states and 14 countries.

Exciting new scientific results are coming from the ESA Gaia and other space telescopes and from the ground-based surveys like Gaia-ESO Public Survey, VVVX Public Survey, VMC Public Survey, GALAH, SDSS, RAVE, LAMOST and many others. Current and forthcoming facilities as well as theoretical studies will yield a deeper understanding of our local Universe.

**Commission H1 The Local Universe Seminars**

We are pleased to report that our commission has launched a new online seminar series. The seminars are primarily for IAU commission H1 members, but are open to everyone who has interest in the Local Universe.

In the past two years, whereas many conferences were canceled due to COVID-19, rich experiences of online meetings opened new possibilities to promote exchanging scientific achievements and ideas between members of our commission who have many common interests.

The organizing committee decided to start a seminar series that are held via Zoom approximately once per month and cover both hot topics and long-term work.

youtube.com/channel/UCyH2KzKFVPMABOIJfgBtJ5g

YouTube LT leškoti

IAU commission H1 "The Local Universe" seminars  
29 prenumeratoriai

UŽPRENUMERUOTA

PAGRINDINIS VAIZDO JRAŠAI GROJARAŠČIAI KANALAI APIE

Įkėlimai ▶ LEISTI VISKĄ

Video Title	Duration	Views	Time
H1 005 The inner halo of the Milky Way	52:54	31 peržiūra	prieš 4 dienas
H1 004 Gaia-ESO Survey: Detailed elemental abundances in red giants of the peculiar globular cluster NGC 1851	22:46	47 views	prieš 1 mėnesį
H1 003 The Global Dynamical Atlas of Milky Way mergers...	39:48	381 peržiūra	prieš 1 mėnesį
H1 001, Dwarf galaxy formation beyond...	37:05	55 views	prieš 1 mėnesį

The seminars are recorded and listed for asynchronous viewing on the newly created IAU Commission H1 “The Local Universe” Seminars YouTube Channel: <https://www.youtube.com/channel/UCyH2KzKFVPMABOIJfgBtJ5g>

Since January 13, 2022, the seminar presentations have been viewed more than 540 times in the two-month period.

IAU highlights our seminars at: <https://www.youtube.com/channel/UCc3I9q-N0NA05vIYeNMmtTw>

Potential speakers of the seminars can fill the online application form: <https://bit.ly/3AtmGP3> or send their proposals to Commission H1 Secretary via email.

Past Seminar talks:

- 1) December 15, 2021, Keynote talk by Sergio Martin-Alvarez (University of Cambridge) “Dwarf galaxy formation beyond supernovae: magnetism, radiation and cosmic rays”.
- 2) December 15, 2021, Highlight talk by Kung-Yi Su (Columbia University) “ Which AGN Jets Quench Star Formation in Massive Galaxies?”
- 3) February 3, 2022: Keynote talk by Khyati Malhan (Humboldt Postdoc fellow at MPA, Heidelberg, Germany) “The Global Dynamical Atlas of Milky Way mergers using ESA/Gaia dataset”.

4) February 3, 2022, Highlight talk by Grazina Tautvaisiene (Vilnius University, Lithuania) “Gaia-ESO Survey: Detailed elemental abundances in red giants of the peculiar globular cluster NGC 1851”.

5) March 2, 2022, Keynote talk by Ricardo Schiavon (Liverpool John Moores University) “The inner halo of the Milky Way”.

### **Conferences and other meetings**

The Commission Web Page contains a list of conferences, workshops, summer schools, and other meetings related to the thematic of Commission H1. Due to the still continuing pandemic situation the number of meetings is smaller than during previous years, we listed 19 meetings for 2021 and 24 meetings in 2022 by now.

### **Appeal to the scientific community**

In spite of all the great recent progress in the study of the local Universe, we cannot stand aside of the totally unacceptable and unjustified military invasion of Ukraine by the Russian Federation, in complete disregard for internationally recognized borders, in flagrant violation of international law, and in damaging scientific work and collaboration. We urge all scientists, including those in the Russian Federation, to do their best in stopping the war and call everyone to help our colleagues who suffer from the consequences of the military actions.