



Monday, March 20, 8:00 am

Registration: 8:00 – 8:30

Chair: Tom Brown (STScI)

Opening

8:30 - 8:40 Welcome/Announcements - Antonella Nota & Pierre Ferruit (co-Chairs)

8:40 - 8:50 Welcome - G. Ortalli (President, Istituto Veneto di Scienze, Lettere ed Arti)

8:50 - 9:10 Welcome - K. Sembach (STScI)

9:10 - 9:40 (I) HST and JWST, brilliant prospects - C. Cesarsky (CEA Saclay)

9:40 – 10:10 Coffee Break and Registration

Solar System

10:10 - 10:40 (I) OPAL's View of atmospheric evolution – M. Wong (UC Berkeley)

10:40 - 11:10 (I) Synergistic observations of the giant planets with HST and JWST: Jupiter's auroral emissions - D. Grodent (Univ. Liege)

Exoplanets

11:10 - 11:40 (I) Diversity in exoplanetary atmospheres – D. Sing (Exeter)

11:40 - 12:00 (C) Comparative planetology in the era of Great Observatories, JWST and beyond – J. Bean (Univ. Chicago)

12:00 - 12:30 (I) Super-Earths: the new frontier of exoplanetary science – G. Tinetti (UCL)

12:30 – 14:30 Lunch and Registration

Chair: Mark Clampin (NASA GSFC)

14:30 - 15:00 (I) Atmospheric evaporation of exoplanets - D. Ehrenreich (Univ. Geneva)

15:00 - 15:20 (C) Polluted white dwarf science with Hubble and JWST – S. Xu (ESO)

15:20 - 15:50 (I) Exoplanetary Investigations with HST & JWST – C. Dressing (Caltech)

15:50 – 16:20 Coffee Break

16:20 - 16:40 (C) Determining the bulk water abundance of low-mass exoplanets with JWST – E. Kempton (Grinnell College)

16:40 - 17:00 (C) An atmosphere around the super-Earth 55 Cnc - A. Tsiaras (UCL)

17:00 – 17:30 *Cocktail*
17:30 – 18:30 *Panel Discussion I*

Defining Success for JWST

Panel members: Pierre Ferruit (ESA), Bill Ochs (NASA GSFC), Pascal Oesch (Univ. Geneva), Eric Smith (NASA), Monica Tosi (INAF Bologna)
Panel moderator: Jason Kalirai (STScI)

Tuesday, March 21, 8:30 am

Chair: Jennifer Wiseman (NASA GSFC)

Stars and Stellar Clusters

8:30 - 8:50 (C) Accretion and outflows in young stars and planets – C. Schneider (ESA)
8:50 - 9:20 (I) Near and far: massive stars revealed by Hubble and James Webb - S. Caballero-Nieves (IT Florida)
9:20 - 9:40 (C) Massive stars and dust: a key to tracing star formation through cosmic history – L. Bianchi (JHU)
9:40 - 10:10 (I) Unveiling the formation of massive star clusters – E. Sabbi (STScI)
10:10 - 10:40 (I) LEGUS: Towards a coherent picture of stellar cluster and star formation in the local universe – A. Adamo (Stockholm Univ.)

10:40 – 11:10 – *Coffee Break*

11:10 - 11:30 (C) Young massive star clusters in the era of HST and IFU spectroscopy - P. Zeidler (Univ. Heidelberg)
11:30 - 12:00 (I) Globular clusters from space: the HST and JWST multi-color eyes – E. D’Alessandro (INAF Bologna)

Stellar Populations

12:00 - 12:20 (C) Dissecting starbursts with HST: from 30 Doradus to dwarf galaxies – M. Cignoni (Univ. Pisa)
12:20 - 12:50 (I) The ancient star formation history of the disc and halo of M31 – A. Ferguson (IfA, Edinburgh)

12:50 – 14:30 *Lunch*

Chair: Michael Garcia (NASA)

14:30 - 14:50 (C) The very massive star content of the nuclear star cluster in NGC5253 – L. Smith (ESA/STScI)
14:50 - 15:20 (I) The resolved stellar populations of dwarf galaxies – E. Tolstoy (Groningen)
15:20 - 15:40 (C) Accretion Phenomena onto Star-forming dwarf galaxies – F. Annibali (Bologna)

15:40 – 16:10 *Coffee Break*

16:10 – 17:10 *Panel Discussion II*

The Future of Space Astronomy

Panel Members: Martin Barstow (Univ. Leicester), Daniela Calzetti (UMass), Nikole Lewis (STScI), Brad Peterson (Ohio), Adam Riess (JHU/STScI).
Panel Moderator: Meg Urry (Yale Univ.)

17:10 – 18:00 *Cocktail*

18:00 – 19:30 *Public Lecture*

Discovering the Universe with the James Webb Space Telescope – J. Mather (NASA JWST)

Wednesday, March 22, 9:00 am

Chair: Garth Illingworth (UC Santa Cruz)

AGN, BH

9:00 - 9:20 (C) The search for AGN in dusty star forming hosts – A. Kirkpatrick (Yale Univ.)

9:20 - 9:50 (I) The role of JWST in the search for the first black holes – F. Pacucci (Yale Univ.)

Galaxy Assembly

9:50 – 10:20 (I) Wide-Field slitless spectroscopy from space: unique constraints on galaxy evolution from cosmic dawn to dusk - G. Brammer (STScI)

10:20 – 10:50 *Coffee Break*

10:50 - 11:20 (I) Galaxy stellar mass assembly in the early Universe from HST to JWST – K. Caputi (Kapteyn Astron. Inst.)

11:20 - 11:40 (C) The assembly of disk galaxies: from Hubble to JWST – S. Kassin (STScI)

11:40 - 12:00 (C) RELICS: discovering bright lensed galaxies for JWST – D. Coe (STScI)

12:00 - 12:30 (I) The final frontier of galaxy formation with galaxy clusters as cosmic telescopes – M. Bradac (UC Davis)

12:30 - 14:30 *Lunch and Poster Viewing*

Afternoon – free

18:00 *Conference Dinner at Ca' Zen*

S. Polo 2580

Thursday, March 23, 9:00 am

Chair: John Grunsfeld (NASA GSFC)

9:00 – 9:30 (I) JWST at the peak of the Cosmic Star Formation Rate density – G. Rodighiero (Univ. Padova)

9:30 - 10:00 (I) Galaxy build-up at cosmic dawn: lessons from Hubble for the JWST era – P. Oesch (Univ. Geneva)

10:00 - 10:20 (C) Combining the power of JWST with gravitational lenses to constrain the properties of extremely low-luminosity galaxies – R. Bouwens (Univ. Leiden)

10:20 – 10:50 *Coffee Break*

10:50 – 11:20 (I) Studying the properties of the brightest Lyman-break galaxies into the epoch of reionization– R. Bowler (Univ. Oxford)

11:20 – 11:40 (C) The first billion years of galaxy formation in cold and warm dark matter cosmologies with JWST – P. Dayal (Kapteyn Astronomical Institute)

11:40 – 12:00 (C) TRGB distances with HST and JWST – R.B. Tully (Univ. Hawaii)

12:00 – 12:30 (I) A new measurement of the expansion rate of the Universe – A. Riess (JHU)
12:30 – 12:50 (C) Enabling a bright and productive future for HST – F. Cepollina and J. Grunsfeld (GSFC)

12:50 – 15:00 Lunch and Poster Viewing

Chair: Nancy Levenson (STScI)

15:00 – 15:30 A vision for Space Science in Europe - A. Gimenez (ESA)

15:30 – 16:00 Coffee Break

Closing Remarks

16:00 – 16:30 (I) Closing Remarks - Daniel J. Lennon (ESA)

Friday, March 24, 9:00 am

Chair: Macarena Garcia Marin (ESA)

9:00 -- 9:10 Welcome and Introduction – M. Sirianni (ESA)

9:10 – 9:30 JWST Project Status and Science Timeline - P. Ferruit (ESA)

9:30 – 9:50 Introduction to JWST Users Tools – N. Lewis (STScI)

9:50 – 10:30 JWST Exposure Time Calculator (PANDEIA) – Design overview and demonstration – K. Pontoppidan (STScI)

10:30 – 10:40 Q&A Session

10:40 – 11:00 Coffee Break

11:00 -- 11:40 Astronomy Proposal Tool (APT) – Design overview and demonstration – A. Armstrong (STScI)

11:40 – 11:50 Q&A Session

11:50 -- 12:30 NIRSpec Multi Object Spectroscopy Planning Tool (MPT) – Design overview and demonstration – T. Beck and D. Karakla (STScI)

12:30 – 14:00 Lunch and Poster Viewing

Chair: Catarina Alves de Oliveira (ESA)

14:00 – 14:25 Poster Session

14:25 – 14:45 JWST Pipeline and Data Product – J. Valenti (STScI)

14:45 – 15:15 Simulated Data - G. Giardino (ESA), M. Garcia Marin (ESA), N. Lewis (STScI)

15:15 – 15:35 Coffee Break

15:35 – 15:55 Engineering Database – Design and use case - M. Nieto-Santisteban (STScI)

15:55 - 16:20 Data Analysis Tools - S. Kassir (STScI)

16:20 – 16:30 Conclusion and future events - M. Sirianni (ESA)