Cold Gas At High Redshift 1st Edition

#cold gas high redshift #early universe cosmology #galaxy formation #intergalactic medium #astrophysics research

Explore the foundational science of cold gas at high redshift, a crucial element in understanding the early universe and the formation of galaxies. This first edition provides comprehensive insights into the cosmological processes that shaped cosmic structures during their infancy.

Cold Gas At High Redshift 1st Edition

Filippo Fraternali: The fast rotating and low-turbulence discs of high-redshift galaxies - Filippo Fraternali: The fast rotating and low-turbulence discs of high-redshift galaxies by AstronomyHeidelberg 268 views 3 years ago 1 hour, 9 minutes - Speaker: Filippo Fraternali, University of Groningen Date: 26. Jan. 2021 Abstract: After decades of being mostly confined to the ...
Filippo Fraternali
The Fast Rotating and Low Turbulent Discs of High Redshift Galaxies
Importance of Gas Dynamics
Dark Matter Component
The Velocity Dispersion Field
The Beam Smearing
Map of the Barolo Region
Evolution of the Velocity Dispersion
The Aztec C159
Rotation Curve
Decomposition of the Rotation Curve
Evolution of the Cold Gas Properties of Simulated Post-starburst Galaxies - Tim Davis - Evolution of the Cold Gas Properties of Simulated Post-starburst Galaxies - Tim Davis by Royal Astronomical Society 57 views 4 years ago 16 minutes - Evolution of the **cold gas**, properties of simulated post-starburst galaxies by Tim Davis (University of Cardiff) on 12/04/2019.
MAYA2022: Melanie Kaasinen "Resolving Cold Gas at Cosmic Noon" - MAYA2022: Melanie Kaasinen "Resolving Cold Gas at Cosmic Noon" by European ALMA Regional Centre Network 55 views 2 years ago 19 minutes - Melanie Kaasinen "Resolving **Cold Gas**, at Cosmic Noon"
SAZERAC-SIP: Learning the high-redshift Universe | Day 1 - SAZERAC-SIP: Learning the high-redshift Universe | Day 1 by SAZERAC Conference 503 views Streamed 2 years ago 3 hours, 23 minutes - A revolution is underway to explore the Cosmic Dawn (CD) and the Epoch of Reionisation (EoR). They are key periods of ...
Introduction
Presentations

Logistics
Abstracts
Whats coming
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Screen Sharing
New facilities
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Light Cones
Jarle Brinchmann - The gas content of galaxies at redshifts less than 0.2 - Jarle Brinchmann - The gas content of galaxies at redshifts less than 0.2 by AstronomyHeidelberg 236 views 10 years ago 1 hour, 2 minutes - Heidelberg Joint Astronomical Colloquium.
Road map
Fitting emission lines
Method summary
Aperture effects - a curse & a blessing
SAZERAC: Models and Simulations of High-Redshift Galaxies | Session 1 - SAZERAC: Models and Simulations of High-Redshift Galaxies | Session 1 by SAZERAC Conference 421 views Streamed 2 years ago 3 hours, 6 minutes - In coming years, ground-based and space telescopes will jointly deliver constraints that will transform our view of the z greater ...
Start
Welcome
Plenary talk: Rahul Kannan (Harvard/ITC)
Anne Hutter (Kapteyn) - Astraeus: a framework to simulate early galaxies and reionization
Aaron Smith (MIT) - Lyman-alpha emission and transmission during the Epoch of Reionization
Daniel Ceverino (UAM) - FirstLight Simulations: unveiling diversity in ISM conditions and line emission at cosmic dawn
Break
Maxime Trebitsch (Kapteyn) - The Obelisk simulation: relative contribution of galaxies and AGN to HI reionization in overdense regions
Harley Katz (Oxford) - The Nature of High [OIII]/[CII] Galaxies in the Epoch of Reionization
Guochao Sun (Caltech) - LIMFAST: A Semi-Numerical Toolkit for Studying Galaxy Astrophysics During Cosmic Reionization with Multi-Tracer Line Intensity Mapping
Yuxiang Qin (Melbourne) - The Ly±GM transmission properties and environment of bright galaxies

during the Epoch of Reionization
Thibault Garel (Geneva) - Lyman-α as a tracer of cosmic reionisation in the SPHINX radiation-hydrodynamics cosmological simulation
Illinois Astronomy Colloquium : Shedding Light on the Gaseous Halos of Galaxies at High Redshift - Illinois Astronomy Colloquium : Shedding Light on the Gaseous Halos of Galaxies at High Redshift by Astronomy Illinois 24 views 2 years ago 1 hour, 5 minutes - Speaker: Dr. Britt Lundgren, University of NC, Asheville Abstract: Simulations predict that galaxy evolution is regulated by the ...
EVOLUTION OF THE GLOBAL STAR FORMATION RATE
QUASARS AS PROBES OF THE GAS IN FOREGROUND GALAXIES
QUASARS AS PROBES OF DISTANT GALAXIES
The Sloan Digital Sky Survey
SDSS I-IV METAL ABSORPTION DETECTION PIPELINE
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DIRECT OBSERVATIONS OF MG II HOST
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HST WFC3/IR GRISM OBSERVATIONS OF THE MOST METAL-RICH QUASAR SIGHT LINES IN THE SDSS
SPATIAL DISTRIBUTION OF MGII AROUND GALAXIES AT Z-1.2
ETL | Incremental Data Load from Amazon S3 Bucket to Amazon Redshift Using AWS Glue | Datawarehouse - ETL | Incremental Data Load from Amazon S3 Bucket to Amazon Redshift Using AWS Glue | Datawarehouse by Cloud Quick Labs 9,624 views 3 months ago 38 minutes - Explore the intricacies of efficient data synchronization between Amazon S3 and Amazon **Redshift**, using AWS Glue in this ...
DIY Safe Hydrogen Storage - DIY Safe Hydrogen Storage by Robert Murray-Smith 139,198 views 3 years ago 8 minutes, 25 seconds - If you want to have a look at those special videos become a member and join by clicking this link ...
How to load S3 data to Redshift | Create Redshift table from CSV file in S3 - How to load S3 data to Redshift | Create Redshift table from CSV file in S3 by AWS Made Easy 7,121 views 6 months ago 7 minutes, 35 seconds - In this demo, I show you how to load your data from S3 to **Redshift**, and create a table from CSV data. #aws #**redshift**, #s3.
Formation of a single massive galaxy through time in the TNG50 cosmic simulation - Formation of a single massive galaxy through time in the TNG50 cosmic simulation by Royal Astronomical Society 207,216 views 4 years ago 1 minute, 59 seconds - The formation of a single massive galaxy through time, from early cosmic epochs until the present day, in the TNG50 cosmic ...
Unexplained Mysteries of the Universe | Space Documentary 2024 - Unexplained Mysteries of the Universe | Space Documentary 2024 by Spacedust 52,044 views 8 days ago 3 hours, 7 minutes - Subscribe here ’ @SpacedustDOC Sponsorships / business ’ spacedust@ruthlesstalent.com Created from what seems to be ...
Intro
Introduction To The Universe
The Early Universe
Formation of Atoms and Molecules
The CMB
The Dark Ages
Formation Of Stars
Formation Of Galaxies
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Mysteries And Unknowns
The Role Of Gravity
Life In The Universe
The Cosmic Web
The Expansion Of The Universe
Magnetic Fields
The Interstellar Medium
Ending

Energy Storage in Hydrogen : Does this beat batteries? - Energy Storage in Hydrogen : Does this beat batteries? by Just Have a Think 329,763 views 4 years ago 12 minutes, 26 seconds - Energy storage is pretty well accepted as the route to making renewable technologies a globally workable solution for reliable grid ...
James Webb Telescope Just Announced First Massive Structure Older Than the Universe - James Webb Telescope Just Announced First Massive Structure Older Than the Universe by INFO. Papers 74 views 8 hours ago 16 minutes - James Webb Telescope Just Announced **First**, Massive Structure Older Than the Universe Prepare to be astounded! The James ...
This NEW Solid Hydrogen Storage Will DISRUPT The Energy Storage Industry - This NEW Solid Hydrogen Storage Will DISRUPT The Energy Storage Industry by The Tesla Domain 56,608 views 1 year ago 8 minutes, 41 seconds - Don´t forget to leave your comments below and to support the channel by liking the video and subscribing. Thanks! Subscribe To ...
Intro
Why is Hydrogen Difficult To Store
Material-Based Hydrogen Storage
Solid State Hydrogen and Plasma Kinetics
Why Solid-State Hydrogen Energy Storage Could be a Gamechanger
Final words
Hydrogen for heating our homes - Hydrogen for heating our homes by Just Have a Think 147,547 views 4 years ago 14 minutes, 4 seconds - Following on from video #59, which looked at energy storage in hydrogen, this week we discuss some of the feedback and ...
Summary
Hybrid Heating System
Electric Combi Boilers
How Do Hydrogen Boilers Work Then
Flame Failure Devices
Government Intervention
How the Hydrogen Is Produced
The Best Harley Davidson Twin-Cam Upgrade That Almost Nobody Does! - The Best Harley Davidson Twin-Cam Upgrade That Almost Nobody Does! by DeathProof Productions 141,266 views 1 year ago 3 minutes, 20 seconds - In this video, I discuss my thoughts (as a trained Factory technician for 22 years) on performance upgrades for Harley-Davidsons, ...
Galaxy Quenching in the High-Redshift Universe - Galaxy Quenching in the High-Redshift Universe by CfA Colloquium 1,401 views 3 years ago 1 hour, 4 minutes - Dr. Sirio Belli (Center for Astrophysics | Harvard & Smithsonian) Clay Fellowship Lecture (Talk begins at 05:00) September 10, ...
Galaxy Bimodality
Why do we need Quenching?
What causes quenching?
The "Major Merger Paradigm"
Cosmological Simulations
The formation of quiescent galaxies
All Gas no Brakes: Uncovering the gas physics driving galaxy evolution - Jed McKinney - All Gas no Brakes: Uncovering the gas physics driving galaxy evolution - Jed McKinney by Caltech Astro Seminars 50 views 1 year ago 55 minutes - This is a **high**,-level research talk designed for professional astronomers. It is part of the Caltech Astronomy Tea Talk Series, ...
Introduction
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Gas: A Prime Driver of Galaxy Evolution - Gas: A Prime Driver of Galaxy Evolution by CfA Colloquium 2,341 views Streamed 6 years ago 1 hour, 4 minutes - Phillips Auditorium Dominik Riechers Cornell University Great progress has been made over the past two decades in constraining ...
The Molecular Star Formation Law
Spectral Energy Distribution of a High Redshift Galaxy
Molecular Deep Field
Model Predictions
The Alpha Co Conversion Factor
Galaxy Simulation - Galaxy Simulation by McDonald Observatory 1,462 views 8 years ago 1 minute - This animation shows the **gas**, density in a simulated galaxy at about **1**, billion years after the Big Bang (**redshift**, 6) with properties ...
Dr. Laura Wolz: Cold gas constraints via HI Intensity Mapping in the SKA era - Dr. Laura Wolz: Cold gas constraints via HI Intensity Mapping in the SKA era by IAA - Comunicación 177 views 1 year ago 58 minutes - Fecha: 21/07/2022 Conferenciante: Dr. Laura Wolz Filiación: Jodrell-Bank Centre for Astrophysics at the University of Manchester ...
H1 Intensity Mapping
Emission from the Cold Hydrogen Gas
How Intensity Mapping Works
Power Spectrum
H1 Intensity Maps
H1 Shot Noise
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SAZERAC-SIP | Metals and dust at high-redshift | Day 1 - SAZERAC-SIP | Metals and dust at high-redshift | Day 1 by SAZERAC Conference 216 views 1 year ago 2 hours, 59 minutes - The last decade has witnessed the discovery of higher and higher-**redshift**, quasars and large improvements in the quality of their ...
Intro
Why do we care
Metals and dust
Observational challenges
Observational examples
Luminosity distribution
Dust detections
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Yuichi
Panel: How Does Gas Flow Out of Galaxies? - Panel: How Does Gas Flow Out of Galaxies? by Fundamentals of Gaseous Halos 70 views 2 years ago 59 minutes - Date: Feb 9, 2021 Panelists: Dylan Nelson (Heidelberg University), Chang-Goo Kim (Princeton), John Chisholm (UT Austin), Miao ...
Introduction
Supernova feedback in simulations
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Discussion
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Phase exchange
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Joint observational constraints
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Different feedback models
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GCF2021 | Day 3 | Christian Maier | Strangulation in a high redshift cluster revealed - GCF2021 | Day 3 | Christian Maier | Strangulation in a high redshift cluster revealed by Galaxy Cluster Formation Conference 2021 169 views 2 years ago 11 minutes, 36 seconds - GCF2021 | Day 3 | Christian Maier | Strangulation in a **high redshift**, cluster revealed by enhanced metallicities and ALMA ...
Introduction
What is strangulation
Slow and rapid quenching
XMM2215
Phasebased diagram

Faceplace diagram
Results
Sfr vs Mass
Co Emission Line
Protoclusters
Comparison to other studies
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Cold gas constraints via HI Intensity Mapping in the SKA era - Cold gas constraints via HI Intensity Mapping in the SKA era by Astronomía en Español 53 views Streamed 1 year ago 58 minutes - Intensity mapping surveys of neutral hydrogen (HI) are a new way to measure the large-scale matter distribution of our universe ...
Dr Laura Wolz UKRI Future Leader Follow & Presidential Follow University of Manchester
On-going Experiments
Challenges
SKA Observatory (SKAO)
SKA Cosmology SWG Red Bool
SKA HI Intensity Mapping Foreground Removal Challenge
Blind Foreground Removal
Method Comparison
GBT Data
GBT HI intensity mapping power spectrun
Hl-galaxy cross-power spectrum
Hl energy density constraints
Hl power spectrum forecast
Hl parameter constraints
MeerKAT power spectrum
New High Redshift Galaxy? - Space Roundup LIVE with Nick & Terry - New High Redshift Galaxy? - Space Roundup LIVE with Nick & Terry by Space Store 87 views Streamed 11 months ago 1 hour, 7 minutes - Tune in LIVE at 7:30pm on Tue 28th March! The latest and greatest Space news! w/ Space experts & Astronomers, Nick Howes ...
Prof. Nissim Kanekar | Atomic Hydrogen in High Redshift Galaxies - Prof. Nissim Kanekar | Atomic Hydrogen in High Redshift Galaxies by Horizon IITM 406 views Streamed 3 years ago 1 hour, 1 minute - This is the second and final lecture of our mini-series "Prof. Govind Swarup Memorial Lectures" by Prof. Nissim Kanekar. Prof.
WHAT CAN 21 CM EMISSION DO FOR YOU?
1970's: WHAT'S THE MATTER?
THE TIMES, THEY ARE A CHANGING
THE RISE OF THE STARS
INCREASE THE SENSITIVITY: "21 CM STACKING"
BREAKING THE ICE: THE GMRT
SUMMARY
The turbulent dynamics of high-redshift disk galaxies (Andreas Burkert, 16/1/2024) - The turbulent dynamics of high-redshift disk galaxies (Andreas Burkert, 16/1/2024) by Academy of Athens 60 views 2 months ago 1 hour, 22 minutes - Andreas Burkert Chair of Theoretical and Computational Astrophysics Ludwig Maximilians University, Munich Abstract: The ...
Local Laboratories for high-redshift astrophysics - Local Laboratories for high-redshift astrophysics by Carnegie Astronomy 318 views 8 years ago 56 minutes - Speaker: Alaina Henry (GSFC) Abstract: The Lyman alpha emission line is an important diagnostic tool, used widely in attempts to ...
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Does Ly a escape through holes in the gas?
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