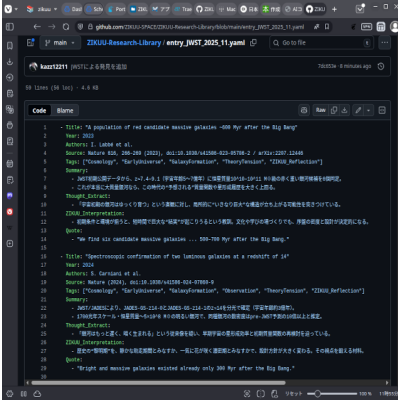




ZIKUU Research Library

Description

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#Cosmology

- **Witnessing the onset of reionization through Lyman- α emission at redshift 13 (2023)**
#Reionization #IGM #TheoryTension #ZIKUU_Reflection
 - JWST/JADESの分光で、 $z=13.0$ の銀河JADES-GS-z13-1-LAから強いLy α 輝線（EW>40Å）を捉えた。[Cosmic reionization began when ultraviolet radiation produced in the first galaxies ionized the neutral gas that filled the primordial Universe.]
- **Spectroscopic confirmation of two luminous galaxies at a redshift of 14 (2024)** · #Cosmology #GalaxyFormation #Observation #TheoryTension #ZIKUU_Reflection
 - JWST/JADESにより、JADES-GS-z14-0とJADES-GS-z14-1の $z\approx 14$ を分光で確定（宇宙年齢約3億年）。[Bright and massive galaxies existed already only 300 Myr after the Big Bang.]
- **A small and vigorous black hole in the early Universe (2024)** · #Cosmology #EarlyUniverse #TheoryTension #ZIKUU_Reflection
 - $z=10.6$ の明るい銀河GN-z11のJWST/NIRSpecスペクトルから、高密度BLRガス線や高速運動を示す。[These spectral features indicate that GN-z11 hosts an accreting black hole accreting at a significant fraction of the Eddington rate.]
- **A population of red candidate massive galaxies ~600 Myr after the Big Bang (2023)**
#GalaxyFormation #TheoryTension #ZIKUU_Reflection
 - JWST初期公開データから、 $z\approx 7.4-9.1$ （宇宙年齢5〜7億年）に恒星質量 $10^{10}-10^{11} M_{\odot}$ の候補星を特定。[We find six candidate massive galaxies ... 500–700 Myr after the Big Bang.]

「Googleで検索すると、ZIKUUの「宇宙の始まり」に関する記事が複数見つかりました。特に、JWSTの観測結果が注目を集めています。また、宇宙の膨張速度や暗黒物質の存在についても議論されています。興味のある方は、ZIKUUのウェブサイトや最新のニュースレターをご覧ください。」

「ZIKUUの「宇宙の始まり」に関する記事は、最新の宇宙学研究成果に基づいています。JWSTの観測結果は、宇宙の膨張速度や暗黒物質の存在についても議論されています。興味のある方は、ZIKUUのウェブサイトや最新のニュースレターをご覧ください。」

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â?; Carniani et al. 2024

• Spectroscopic confirmation of two luminous galaxies at a redshift of 14

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Witstok et al. 2025

• Witnessing the onset of reionization through Lyman- α emission at redshift 13

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2. è^l³æ, ¬å? å®¹

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â?£ Maiolino et al. 2024

• A small and vigorous black hole in the early Universe

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JWST/NIRSpec $\tilde{z}=10.6^{+0.4}_{-0.4}$, $\log L_{\text{bol}}=44.8^{+0.1}_{-0.1} \text{ erg s}^{-1}$, $\log M_{\text{BH}}=7.23 \pm 0.05 \text{ } ^{\circ}\text{G}$

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- BH seed formation
- direct collapse, runaway mergers
- JWST
- AGN
- BH

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Category

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Tags

- AI
- JWST
- LLM
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Date Created

2025â¹11æ??9æ?¥

Author

kazuo-tsubaki