



# Properties of Ly $\alpha$ emitters in a protocluster at $z=3.13$

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- HzRG are excellent tracers of high- $z$  protoclusters
- We study 32 LAEs using a large set of broadband images and SED fitting and we define LBG and DRG samples
- We stack 27 IRAC undetected LAEs and find that the average LAE is young and not very massive
- Four LAEs have IRAC detections and are notably more massive
- Most extreme object is older than 1 Gyr and  $10^{11} M_{\text{sun}}$ , has clumpy morphology and is within  $50''$  of the HzRG
- LAEs contribute at least 10% of the total SFR density in the protocluster

