

**R23b**      **Detection of the Spitzer/IRAC-bright LBGs in the GOODS**

大内正己、Bahram Mobasher、Henry Ferguson(STScI)、Mark Dickinson(NOAO)、GOODS  
チーム

We report the detection of IRAC-bright LBGs in the GOODS fields. These LBGs are found in the deep Spitzer/IRAC  $3.6\mu\text{m}$  images taken through the Spitzer legacy programs. A large number of LBGs are very bright ( $\gtrsim 22\text{mag}[\text{AB}]$ ) in the  $3.6\mu\text{m}$  band. If our photometrically selected LBGs are real galaxies at  $z = 2 - 6$ , these LBGs are very massive galaxies with a stellar mass of  $\gtrsim 1 \times 10^{11} M_{\odot}$ . We will discuss the number density of these IRAC-bright LBGs and compare this number density with those predicted by semi-analytic models.