

# The MUSE-Wide Survey: Survey Description and First Data Release \*

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## MUSE Wide Survey

- Unbiased survey
- CANDELS/GOODS-S, CANDELS/COSMOSの100ポイントニング
- 各ポイントニング1hr exposure
- DR1では44ポイントニング
  - Seeing=0.7-1.0" @0.7um
- "Deep"(10hr x 9)と相補的

## 検出天体

- 1859 spec-z
  - うち、257天体はcontinuum
  - F775Wで24等より明るい772天体の98%でspec-zが決まった
- 1602 emission line sources
  - 479 LAEs @ z=2.9-6.4

## Photo-z (Skelton+14)との比較

- Outlierは大きい
- dz~0.2のsystematic offsetがある
  - EAzYで強いLyAがあるときにLyman Breakの位置を短めに出してしまうためだらう

## まとめ: 図15

- これまでの分光サーベイよりはるかに暗い天体が同定できている

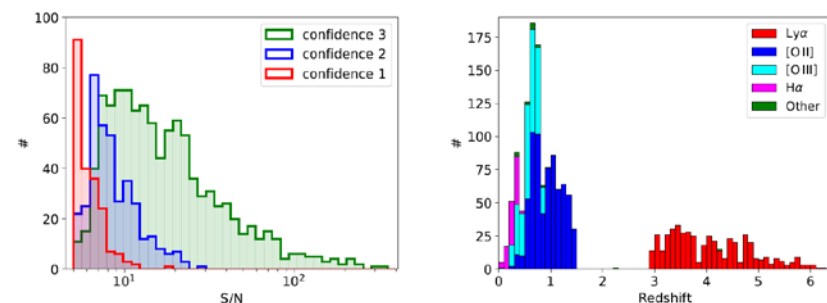


Fig. 6. (a) Left: Distribution of number of emission-line objects as a function of S/N of the lead line for each of the three confidence levels we

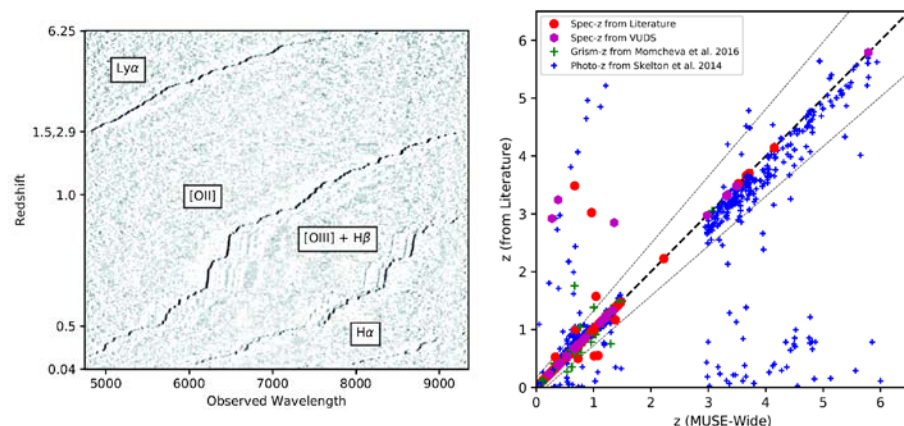


Fig. 7. Stack of normalized spectra of the emission line objects. They are stacked in  $y$ -direction with increasing

Fig. 8. Redshift comparison between MUSE and literature redshifts for our emission line selected galaxies. Red dots

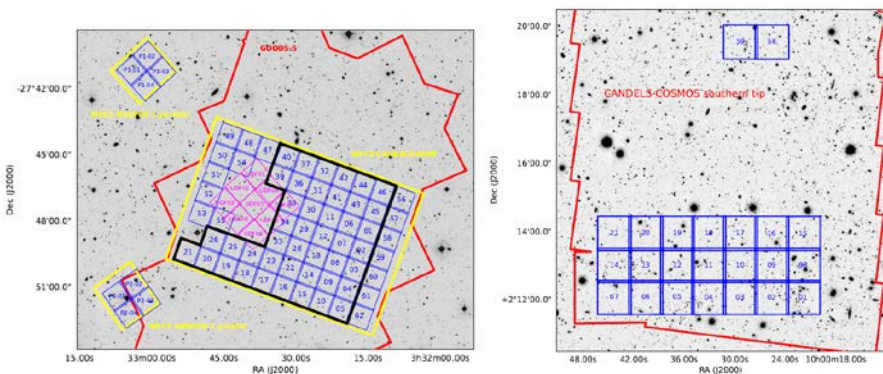


Fig. 1. Layout of the 91 fields observed for the MUSE-Wide survey in blue. Left: The footprint in the Chandra Deep-Field South region overlaid

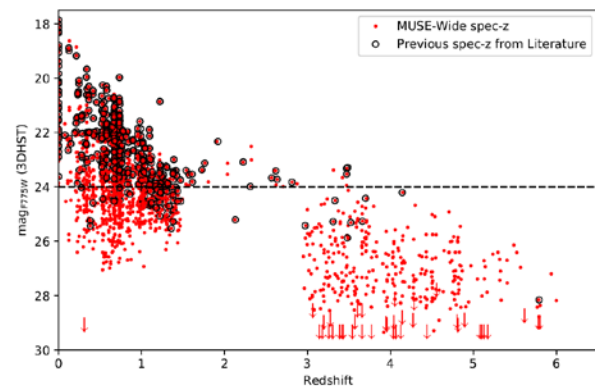


Fig. 15. F775W *HST* magnitude of both photometrically and emission-line selected high confidence sources (1,597 objects)