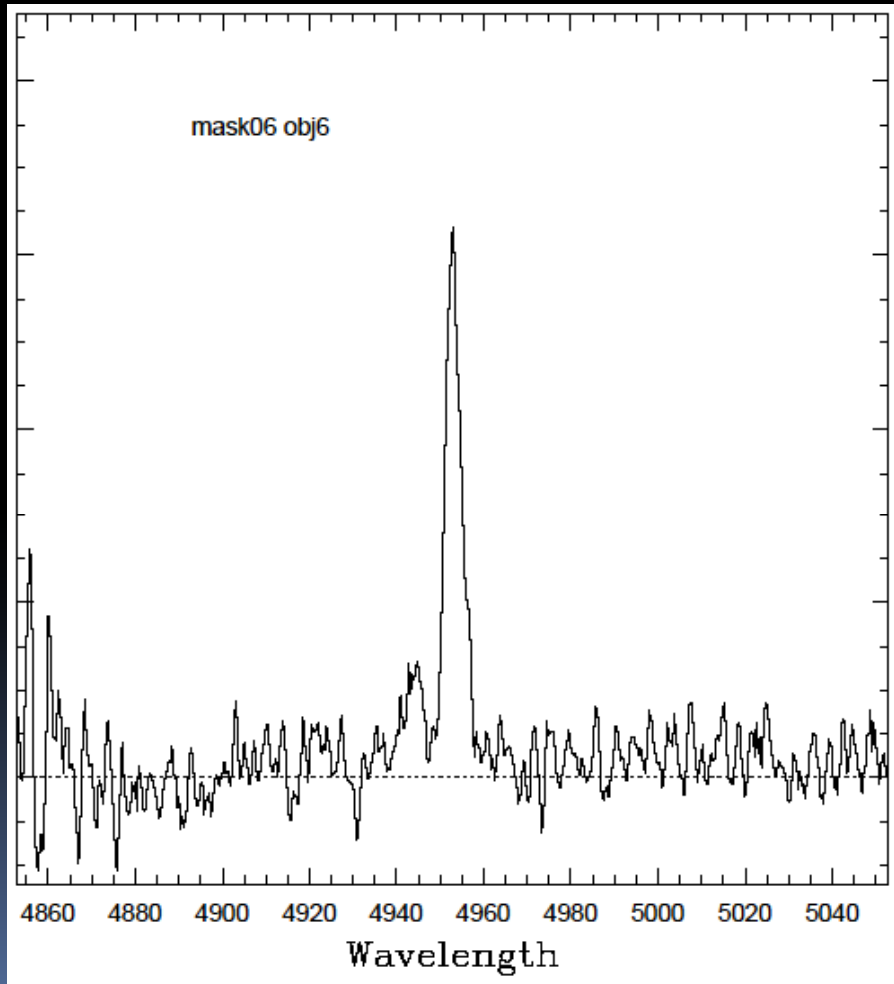


# Line Profiles of $z=3.1$ LAE in the 'SSA22-Sb1' regions

'SSA22' : small selected area 22 in Hawaii Deep Survey



- ~130 LAE spectra with Subaru FOCAS
- $R \sim 1500$
- >25% of the objects have similar line profiles, ~ 'expanding shell' models.
  - sharp cut off at the blue side
  - weak secondary peak

26/ 94 (or more) LAEs in SSA22-Sb1 shows the 'expanding shell' spectra

← Examples of individual objects

↓ Composite of 10 high-S/N and all 26 LAEs

