ulating GLAO Observations of tant Galaxies

ata, Y. Minowa (Subaru), M. Akiyama (Tohoku)
Subaru Next-Gen AO Working Group

ntific Objectives

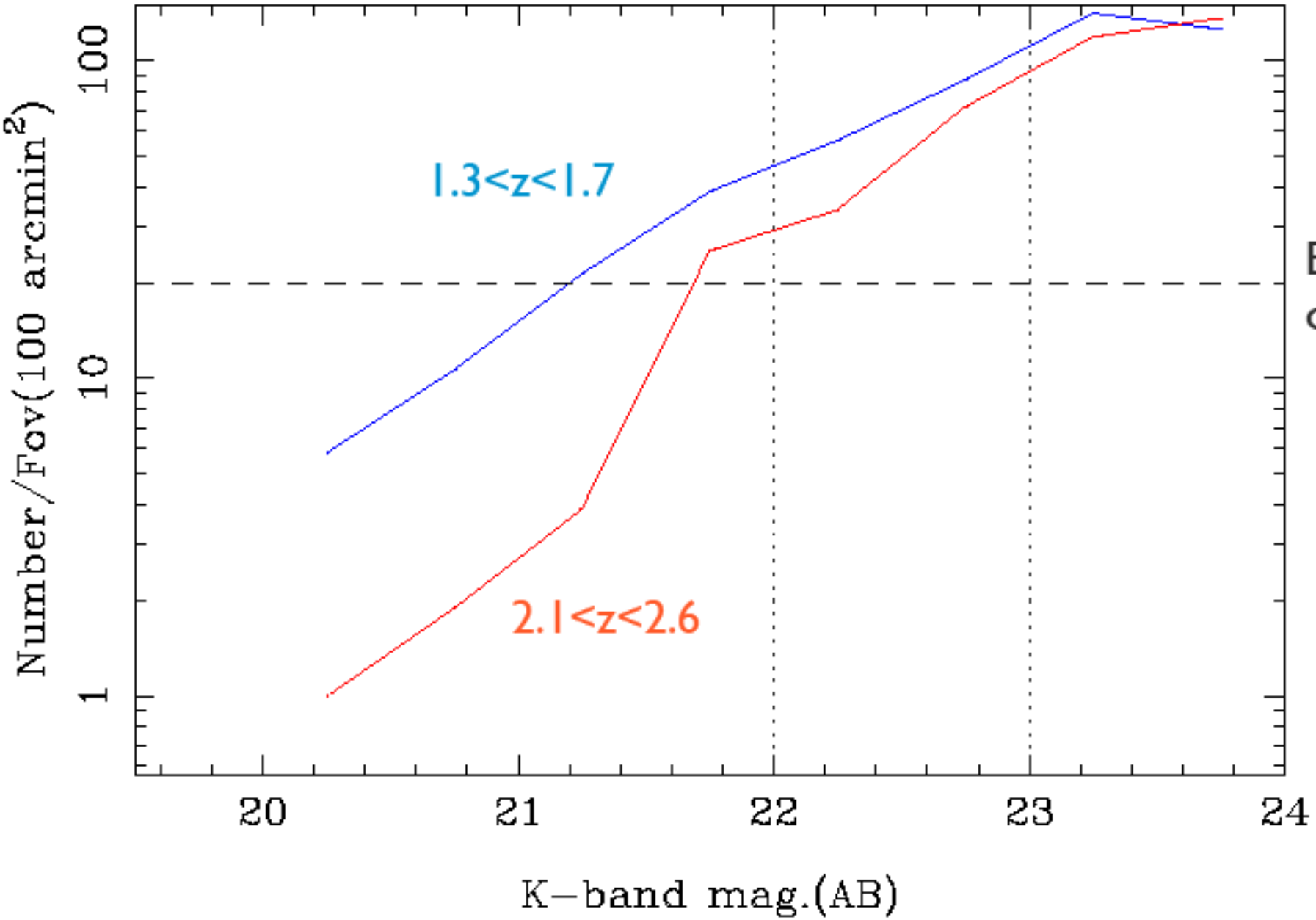
w knows the outline of the Cosmic Star Formation Histor
re a lot of unresolved questions; we (briefly) know what
ned, but we don' t know *How* it has happened

Observations:

rge sample: we need unbiased sample of galaxies at vario
hift for statistically complete discussions, high dynamica
ges of ph y s i c a l parameter s (mass, age, SFR, environm

esolved imaging and spectroscopy: galaxies have complex
rnal structures. We need finer views of morphologies and
gral Field Spectroscopy.

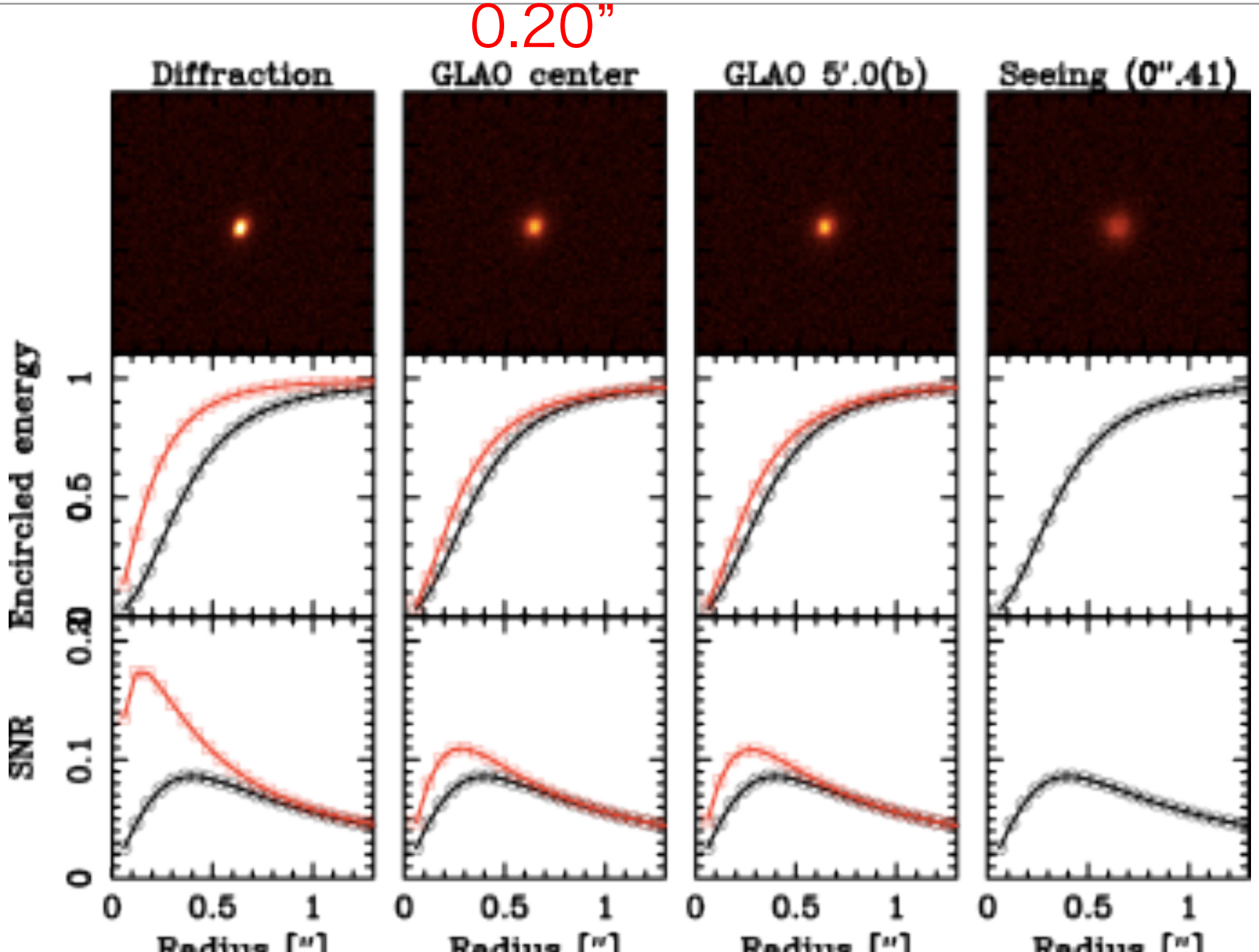
mber Density of Distant Galaxies



Expected
of IFU arr

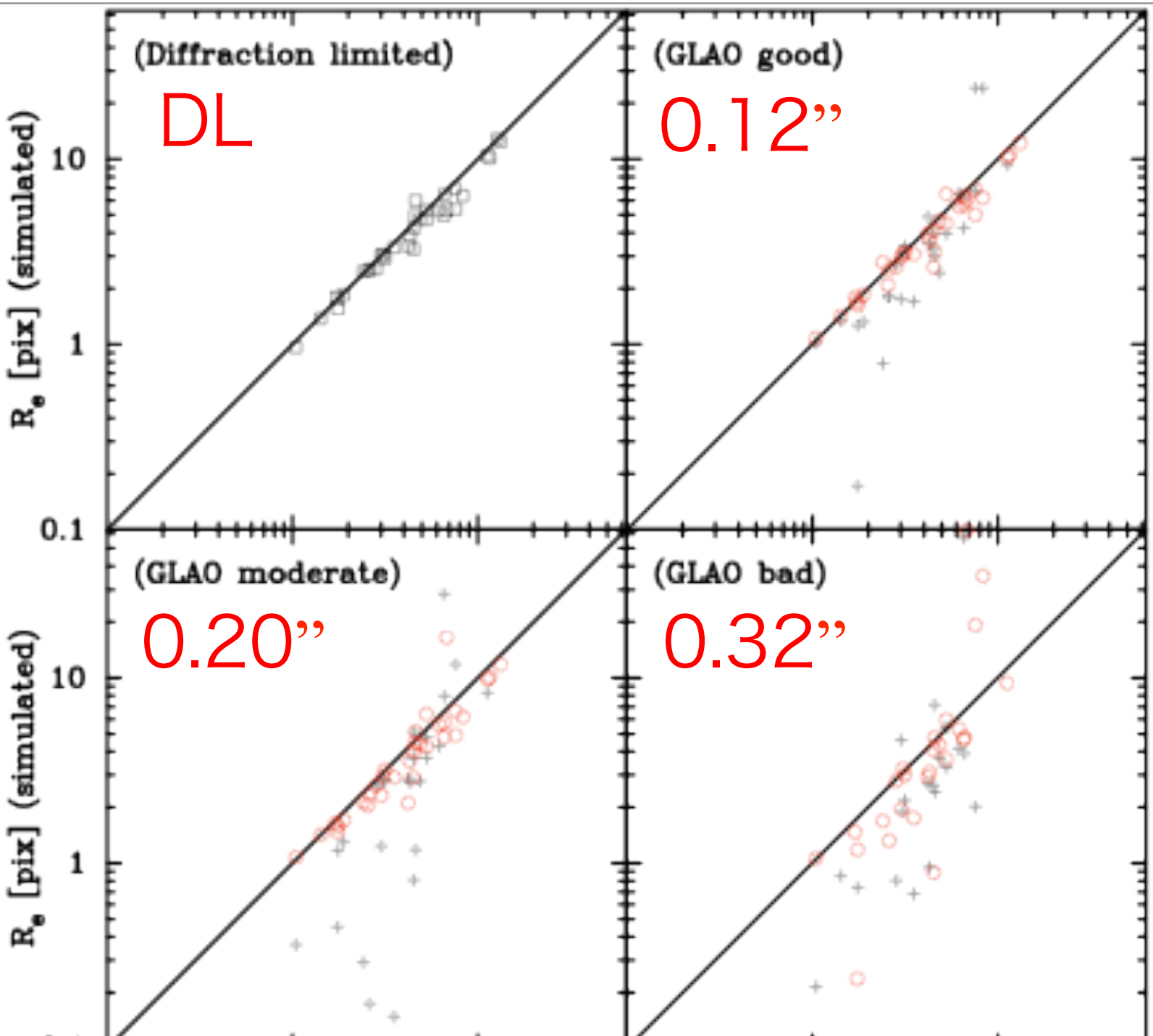
1.3<z<1.7: 40 (K_{AB}=22), 100 (K_{AB}=23)

ulating Imaging Obs. of z~2 Star-forming Galaxi



ulating Imaging Obs. of z~2 Star-forming Galaxi

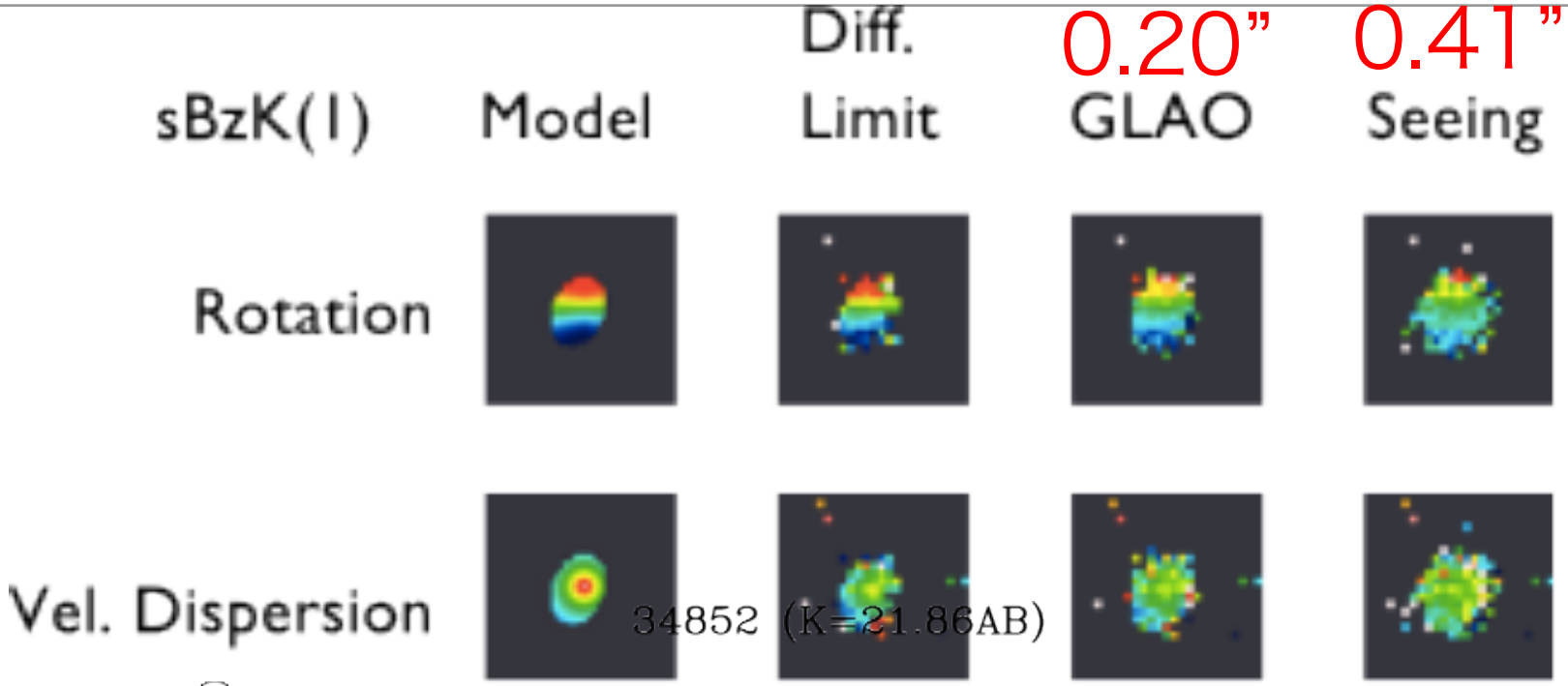
original

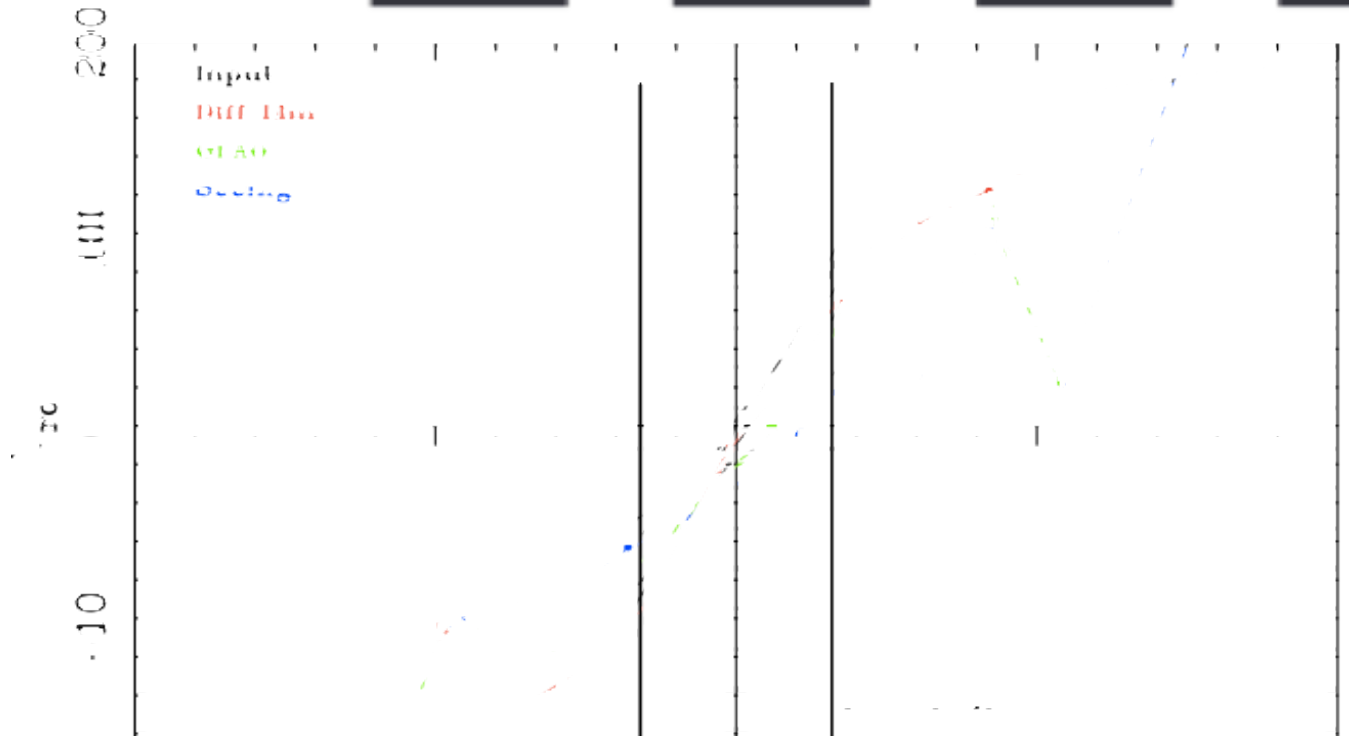


Re
(K-ba

For Ser
DL is n

ulating Integral-Field Spectroscopy





AO is a strong candidate of Next-Gen AO for Subaru

ulations of GLAO and observations of distant galaxies
ng GLAO

~0.2 - 0.5 mag. sensitivity enhancement

Better size determinations

Better measurement of internal kinematics

AO + Wide-Field Multi-Object IFS

Legacy ‘3D’ Survey of Many Distant Galaxies