

P3

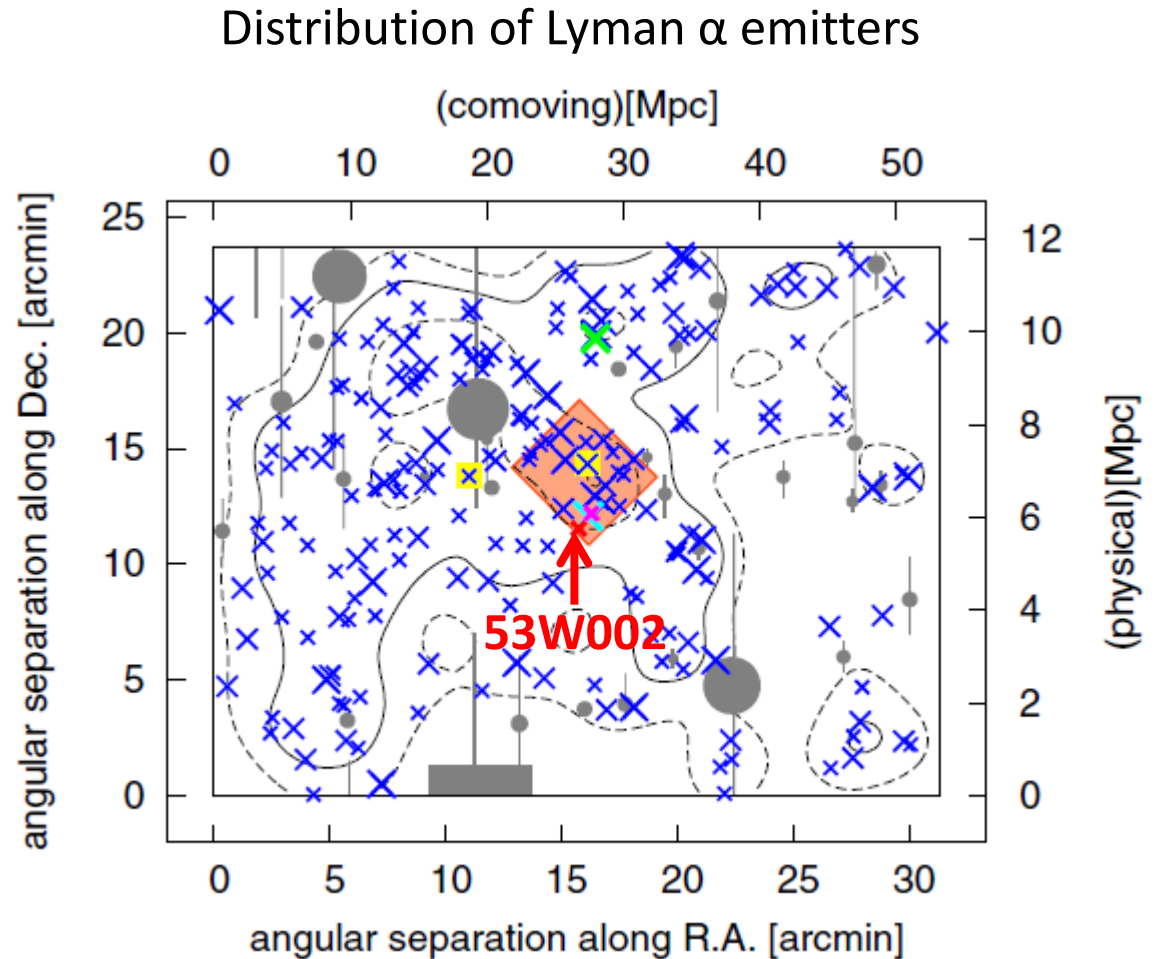
A NIR Search for Massive Galaxies
in a Proto-cluster near 53W002 at $z \sim 2.4$

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A Proto-cluster near 53W002 at $z=2.39$

Large-scale high-density region of LAEs at $z\sim 2.4$

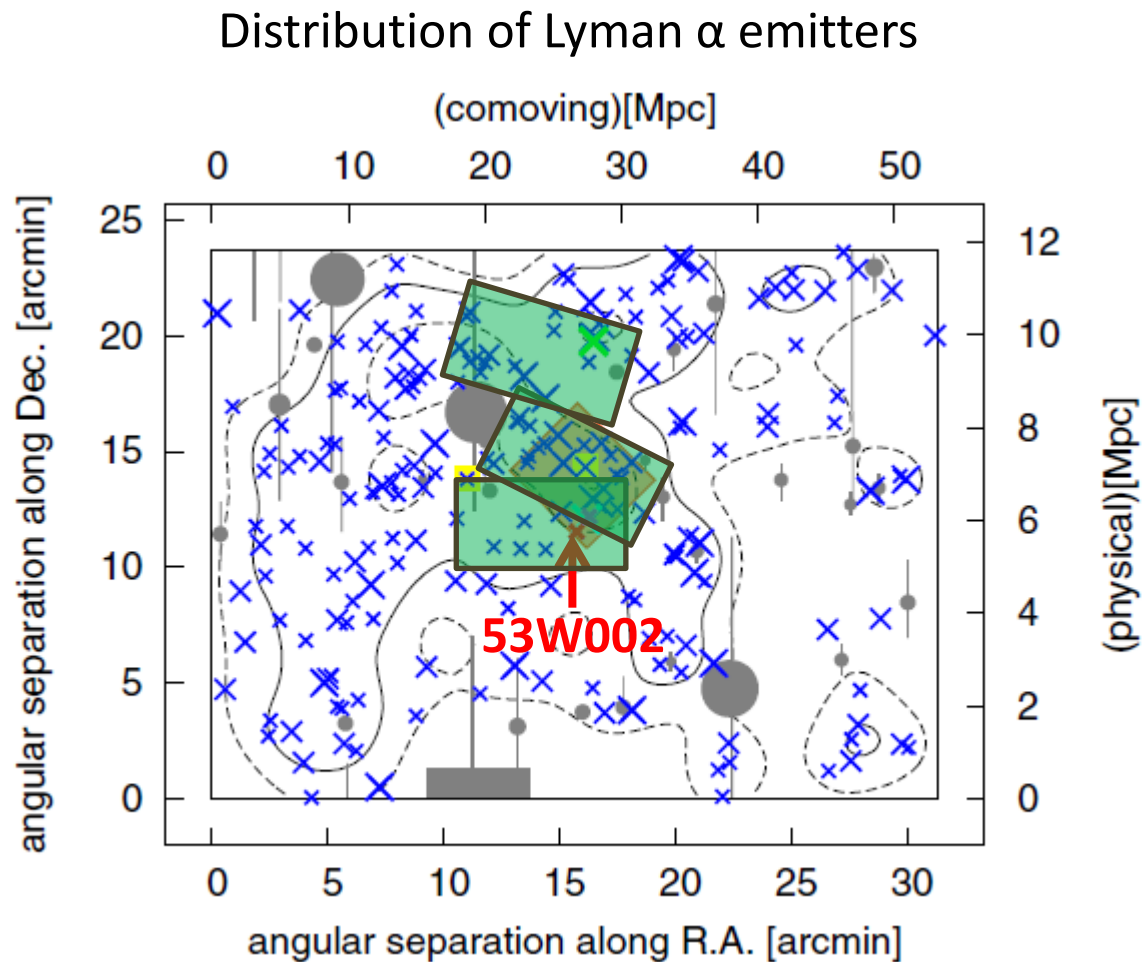


A Proto-cluster near 53W002 at $z=2.39$

Large-scale high-density region of LAEs at $z\sim 2.4$

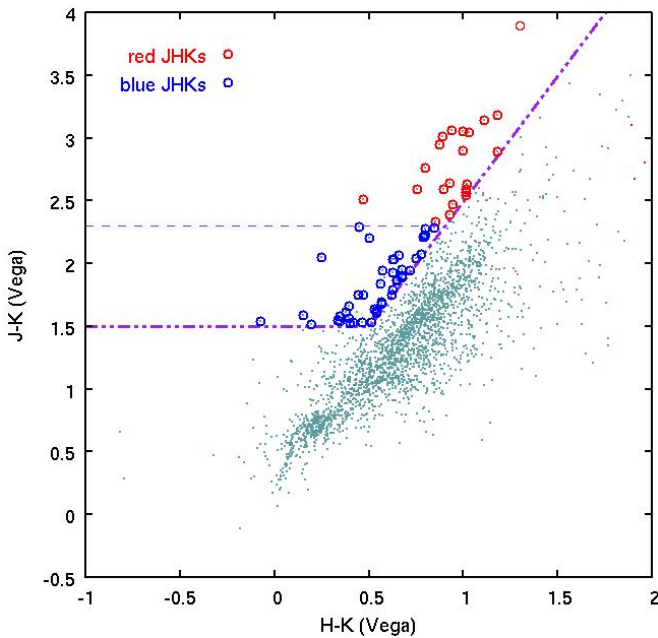
MOIRCS imaging

3 pointings of MOIRCS cover the high-density region

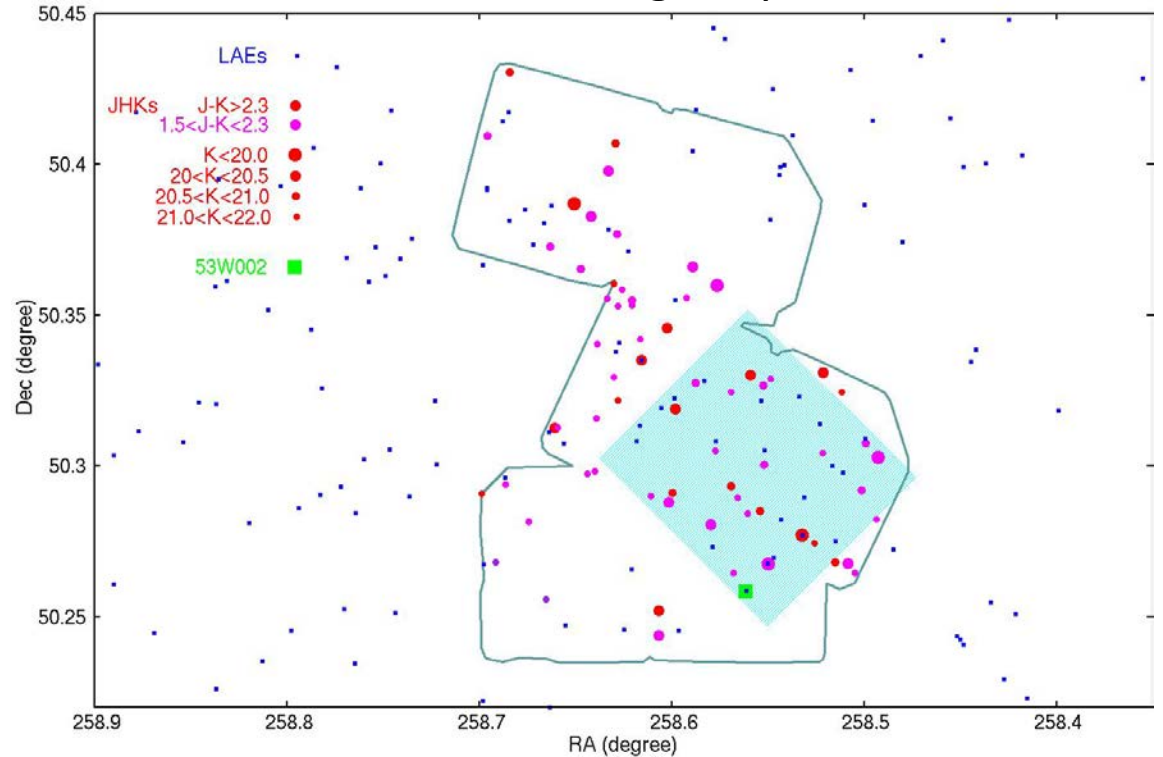


Massive galaxy candidates at $z \sim 2.4$

JHKs-bands color selection



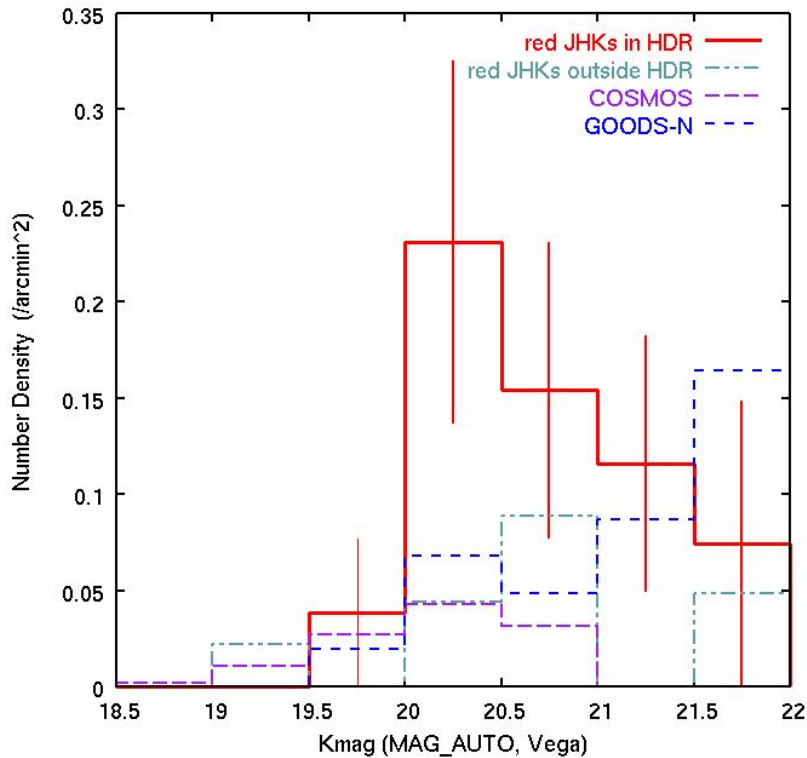
NIR-selected massive galaxy candidates



NIR-selected galaxies trace the high-density structure of LAEs.

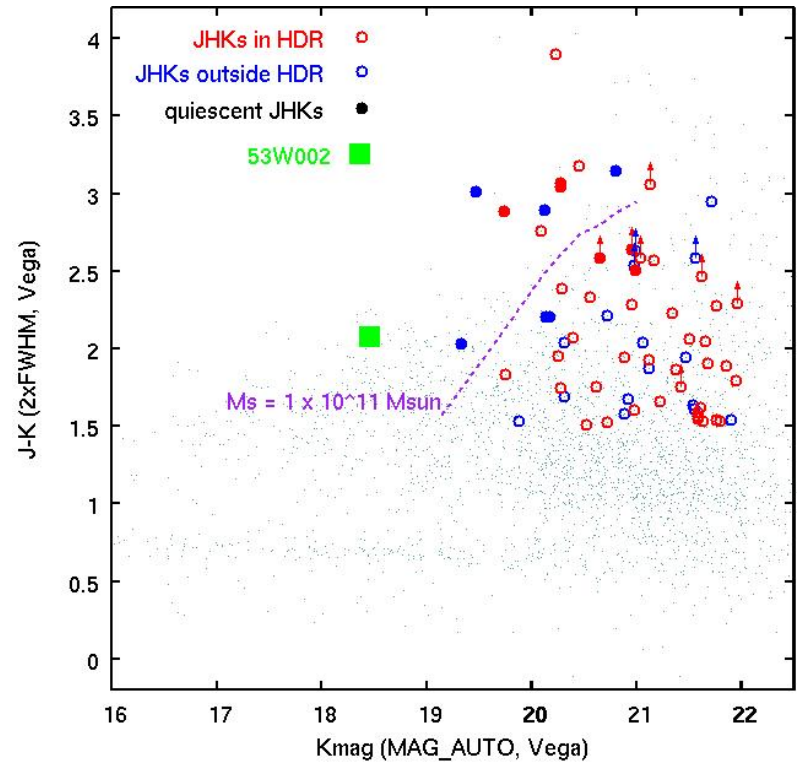
Red galaxies

K-band counts of red galaxies



Number density excess!

J-K color-magnitude diagram



Red sequence of passive galaxies?