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The mechanisms for quiescent galaxy formation at z<1

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Building the quiescent galaxy population



GALAXIES CAN GO THROUGH...

LIFE IS TOUGH!



Faber+07, Schawinski+07, Cortese & Hughes 09, Salim+12, Fang+12, 2013, Wetzel+13, McGee +14, Yesuf+14, Schawinski+14, Smethurst+15,16, Peng, Maiolino & Cochrane 15, Trayford+16





0.5<z<1 22021

Rowlands et al. submitted















How quickly do galaxies stop forming stars?



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Post-starbursts at low-z are not dead?



Conclusions

- Quiescent population growing in number density for intermediate mass galaxies, not growing at high masses.
- Post-starbursts are rare at z<1 rapid transition less common at z~0 than at high redshift.
- Quiescent population growth could be entirely contributed by green valley or PSB galaxies z=0.7.
- Green valley transition dominant at z~0.1.
- Presence of transition galaxies inconsistent with quiescent population growth at $M_*>10^{11} M_{\odot}$. Rejuvenation?
- Spatially resolved studies needed.

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