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The stellar mass-size evolution of galaxies from $z=7$ to $z=0$

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Propositions

accompanying the thesis

The Stellar Mass-Size Evolution of Galaxies From $z=7$ to $z=0$

1. The observed size growth of Lyman Break Galaxies goes as $r_e \propto (1 + z)^{-1.20 \pm 0.11}$. (Chapter 3)
2. Star-forming galaxies are significantly larger than quiescent galaxies of the same stellar mass up to high redshifts. (Chapter 2)
3. Massive nearby early-type galaxies are not well fit with single Sérsic Profiles. Two component or Non-parametric methods provide less-biased size measurements. (Chapter 4)
4. Although single Sérsic profile fits can be biased for well-resolved galaxies, they provide robust sizes at high redshifts. (Chapter 4)
5. Submillimeter Galaxies (SMGs) might explain the formation of the local elliptical galaxies.
6. A complete understanding of quenching of star-formation in galaxies is extremely challenging.
7. The very center of galaxies is a mystery.
8. ALMA is key for determining the gas properties in high-redshift galaxies.
9. “The lovers cause is separate from all other causes; Love is the astrolabe of God’s mysteries” (Rumi)
10. “The secret of getting ahead is getting started. The secret of getting started is breaking your complex overwhelming tasks into small manageable tasks, and then starting on the first one.” (Mark Twain)

Moein Mosleh
Leiden, June 12, 2013