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## Deep submillimetre observations of faint dusty galaxies

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# Stellingen

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## Deep Submillimetre Observations of Faint Dusty Galaxies

1. The dominant fraction of submillimetre galaxies is likely more related to Distant Red Galaxies than to Lyman Break Galaxies.  
*This thesis, Chapter 5*
2. Submillimetre sources with  $850\ \mu\text{m}$  fluxes between 0.5 and 2.5 mJy are the dominant contributors to the submillimetre extragalactic background radiation.  
*This thesis, Chapter 3*
3. The comoving star formation rate density of submillimetre galaxies peaks at a redshift of about 2.  
*This thesis, Chapter 4*
4. There is no compelling evidence that the low-luminosity submillimetre galaxies are more distant than the very luminous submillimetre galaxies.  
*This thesis, Chapter 5*
5. The advantageous negative  $k$ -correction for high-redshift submillimetre observations is a disadvantage to the identification of the underlying galaxy.
6. The redshift distribution is an important diagnostic for constraining the role of submillimetre galaxies in the formation and evolution of galaxies.
7. Active Galactic Nuclei in bright submillimetre galaxies are not sufficiently powerful to be the dominant contributor to the heating of the dust. Hence, the submillimetre emission of those galaxies can be used to determine their star formation rate.  
*Alexander et al., 2003, AJ, 125, 383*
8. The term 'Submillimetre Galaxy' carries no information on the physical extent of such a galaxy.
9. "The Bible was written to show us how to go to heaven, not how the heavens go."  
*Cardinal Baronius (1598), as cited by Galileo*
10. Turning off the street lights in all urbanised areas once per month (on cloudless nights) would further increase the interest in astronomy.
11. The two-body problem of classical mechanics is described in simple, well-defined equations, but the researchers' two-body problem is described by an unknown number of equations, where the solution can only be found through an iterative process.
12. An expert is a person who has made all the mistakes which can be made in a very narrow field.  
*Niels Bohr*
13. The aesthetics of a meal increases the pleasure found in eating the food.
14. Karakteristieke letters en geluiden zijn voor een taal wat kruiden zijn voor het eten.

Leiden, 6 Oktober 2004  
Kirsten Kraiberg Knudsen