

## Stellingen

behorende bij het proefschrift

### Emergence of cosmic structures around distant radio galaxies and quasars

1. Candidates for protoclusters discovered to date have properties expected from progenitors of local clusters of galaxies.  
*Chapter 10*
2. The association of distant, luminous radio galaxies and quasars with protoclusters is consistent with models of hierarchical structure formation.  
*Chapters 2, 5, 7 & 9*
3. The X-ray emission from distant radio galaxies gives clues to many important physical processes (e.g., magnetic fields, scattering, shocks), but complicates the search for intracluster gas.  
*Chapter 3*
4. Changes in the individual properties of galaxies can occur on timescales much shorter than the large-scale clustering timescale.  
*Chapters 2 & 8*
5. A detailed study of large-scale structure requires a giant (30-100m) optical telescope for spectroscopy of very faint galaxies.
6. The proliferation of artistic renderings of astronomical images and simulations serves to inspire the current generation of astronomers, but can conceal the underlying (astro-)physics.
7. Ongoing efforts to reduce further the uncertainties in the cosmological parameters  $\Omega_M$  and  $\Omega_\Lambda$  are unlikely to explain the physical processes of which they are a manifestation.
8. There is less between Heaven and Earth than most people seem to think.
9. Baltimore is an attractive city for academics.
10. It is too easy to do research in astronomy for four years and then criticize politics in your 'stellingen'.
11. The use of computers and internet in schools should be reduced drastically.
12. Countries that possess rainforests should be compensated for their daily production of oxygen.
13. Benjamin Franklin's words "*Those who would give up essential liberty to purchase a little temporary safety, deserve neither liberty nor safety,*" are as relevant today as they were in the 18th century.