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Leiden
The Netherlands

Connecting the dots : analysis, development and applications of the SimpleX algorithm

Kruip, C.

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Propositions

for the thesis

ANALYSIS, DEVELOPMENT AND APPLICATIONS OF THE SIMPLEX ALGORITHM

1. The properties of the Delaunay triangulation make it both suitable and unsuitable for radiative transfer simulations.

Chapter 2 and 3 of this thesis

2. The interpretation of radiative transfer as a Markov chain can speed up computations involving the scattering of light considerably.

Chapter 6 of this thesis

3. The morphology of the reionization process in numerical simulations can depend strongly on the method used for these simulations.

Chapter 7 of this thesis

4. Current theories of stellar mass-loss are unable to explain the Homunculus nebula around Eta Carinae.

Chapter 8 of this thesis

5. The lack of job security impedes the creativity of astronomers.

6. Mass should be measured in units of 'Einstein'.

7. The status and handling of observational and numerical data is unjustly different.

8. Tantalizing propositions stimulate laziness in the opposition committee.

9. It is virtually impossible to buy a good Cuban cigar in Cuba.

Chael Kruip
Leiden, 20 October 2011