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The Soft Molecular Landing Machine

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Propositions

accompanying the dissertation

The Soft Molecular Landing Machine: Ultra-High Vacuum Deposition of Non-Volatile Solution Processable Organic Materials and Polymers

by

Theodorus L. Krijger

- 1. Literature values of 5 or higher for the work function of gold should not be used to calculate device properties of devices that have not been prepared and kept entirely under vacuum. (This thesis)
- 2. Contrary to common knowledge, it is possible to perform electrospray on molecules with very low polarity. (Chapter 3 & 4)
- 3. Solution processable OPV materials make production of devices more simple, but understanding how they work more difficult.
- 4. A well-staffed and well-equipped mechanical/electrical workshop is an absolute necessity for any PhD. student wishing to develop a new high-tech measurement setup.
- 5. The properties that we attribute to certain materials turn out not to be actual material properties, but properties of the material in a specific environment. The same can be said of characters of people.
- 6. Theoretical physicists might prefer to work on their problems in vacuum as it eliminates a lot of unwanted difficulties, but for experimental physicists, working with vacuum provides enough problems of its own.
- 7. Regardless of the good or bad nature of a artificial general intelligence, we should make sure that the human reaction around its release isn't going to be catastrophic.