

From electrons to proteins to data

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Propositions accompanying the PhD-thesis

From electrons to proteins to data:

How to localise, observe and organise them

Johannes Paul van Schayck

7th of March 2024

- 1. The choice to operate at 300 kV for cryo-EM single particle analysis is mainly driven by the availability of detectors. *This thesis*
- 2. Reproducing research with its data but without the accompanying software is like trying to bake a bread without an oven. *This thesis*
- 3. The affordability and versatility of hybrid pixel detectors can make them a very attractive choice for a wide range of electron microscopy techniques. *This thesis*
- 4. Essential for bridging the gap between researchers and effective research data management are disciplinary data stewards. *This thesis*
- 5. Research data management is the necessary precursor to enable FAIR and Open Science. *Higman et al.*, 2019
- 6. It is cheaper, possibly better, and certainly easier to store samples in a freezer than records on a disk.
- 7. Research data management is no more about computers than astronomy is about telescopes. free after Edsger Dijkstra
- 8. The 'O' of Open is not in FAIR. Barend Mons
- 9. No need for an excuse vlaai is its own occasion. Raimond Ravelli
- 10. Science is never finished, however, a PhD thesis should be finished, eventually. *Pauline*