- After a recap of generative chemistries and the DPO approach, we will discuss the ILP formulation for autocatalysis. After that, this weeks (38) topics: Graph isomorphism, McKay's Canonical Graph Labeling Algorithm.

- Mandatory Reading:

  - Main source of information: Chapter 4 of the PhD thesis by Jakob Lykke Andersen.

- Highly Recommended Reading if you are more interested:

  - Jakob L. Andersen, Daniel Merkle. *A Generic Framework for Engineering Graph Canonization Algorithms.* Proceedings of the Twentieth Workshop on Algorithm Engineering and Experiments (ALENEX, 2018) https://epubs.siam. org/doi/abs/10.1137/1.9781611975055.13

  - Source Code related to the article:

    * https://github.com/jakobandersen/graph_canon
    * https://github.com/jakobandersen/perm_group
    * https://github.com/jakobandersen/graph_canon_vis

  - McKay, B.D. and Piperno, A., Practical Graph Isomorphism, II, Journal of Symbolic Computation, 60 (2014), pp.94-112.

  - S. G. Hartke and A. Radcliffe. *McKay's canonical graph labeling algorithm.* In Communicating Mathematics, volume 479 of Contemporary Mathematics, pages 99-111. American Mathematical Society, (2009). This article contains the example for the handwritten notes.