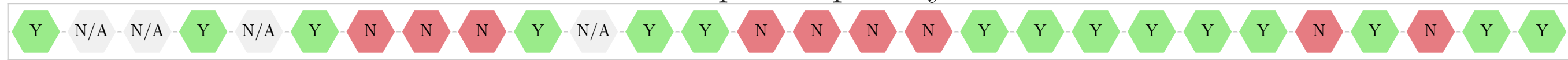


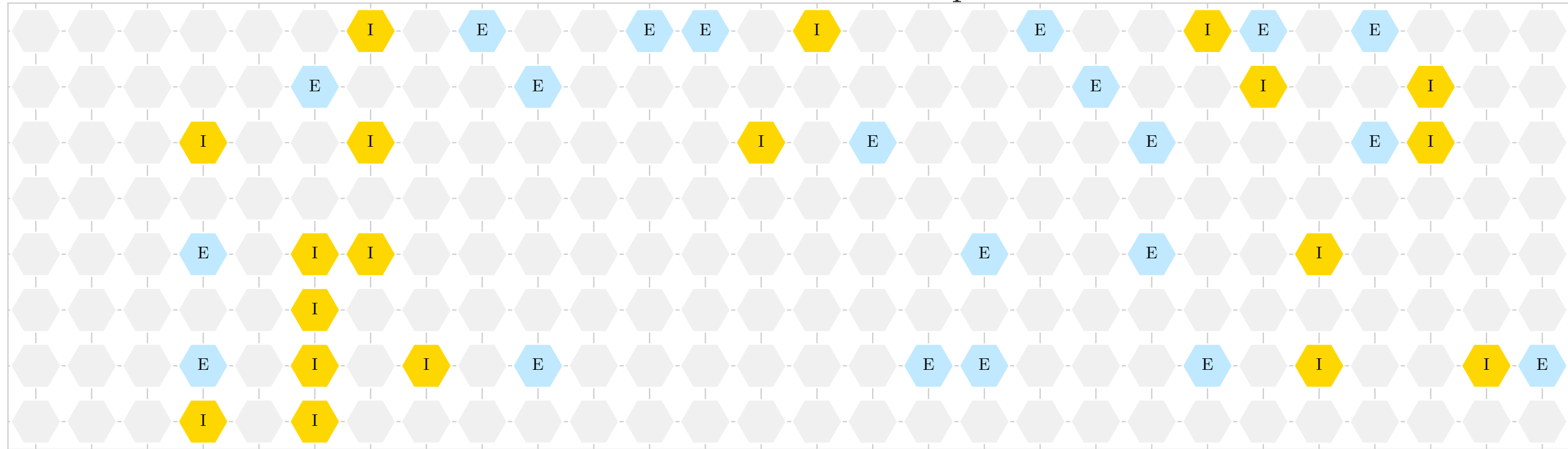
Definitions of Model Collapse

- Catastrophic Increase of Population Risk
- Any Increase of Population Risk
- Asymptotically Diverging Population Risk
- Change in Scaling Law
- Collapsing Variance
- Entanglement of Real Data Mode(s)
- Disappearance of Real Tail Data
- Appearance of Hallucinated Data

Explicit Definition?



Which Definitions of Model Collapse Are Used?



Taori & Hashimoto (2022 Sep)
Hataya et al. (2022 Nov)
Martinez et al. (2023 Feb)
Shumailov et al. (2023 May)
Martinez et al. (2023 Jun)
Alemohammad et al. (2023 Jul)
Bertrand et al. (2023 Sep)
Guo et al. (2023 Nov)
Brieseck & Farid (2023 Nov)
Briesch et al. (2023 Nov)
Jain et al. (2023 Nov)
Dohmatob et al. (2024 Feb)
Dohmatob et al. (2024 Feb)
Fu et al. (2024 Feb)
Gerstgrasser et al. (2024 Feb)
Marchi et al. (2024 Feb)
Chen et al. (2024 Feb)
Seddik et al. (2024 Apr)
Xing et al. (2024 Apr)
Feng et al. (2024 Apr)
Ferbach et al. (2024 Apr)
Shumailov et al. (2024 May)
Dohmatob et al. (2024 Jun)
Chen et al. (2024 Jun)
Kazdan et al. (2024 Jul)
Dey & Donoho (2024 Sep)
Suresh et al. (2024 Oct)
Zhu et al. (2024 Dec)