

FAU MoD Lecture Series



Finding the optimal model complexity of whole-brain models and digital twins

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WHEN

Monday October 27, 2025 16:00H (Berlin time)

WHERE

On-site / Online

Friedrich-Alexander-Universität
Erlangen-Nürnberg (FAU)
Room **H20**. ER - Südgelände
Technische Fakultät
Cauerstraße 5b, 91058
Erlangen Bavaria, Germany

Live-streaming: https://www.fau.tv/clip/id/59621

Whole-brain neural mass models can effectively simulate neural activity, however the elevated model complexity of some implementations might hinder their translation to clinical practice, e.g. for digital twin applications.

In this talk we will talk about different strategies to choose the optimal level of complexity and critically evaluate potential added benefit of more sophisticated heterogeneous models.

These results might facilitate the translation of simpler and less computationally complex models to clinical applications, while maintaining the same accuracy for predictions.