

# Thanks



**AMOLF** physics of  
functional complex matter

**BaSyC**

**I|S|T AUSTRIA** Gašper Tkačik  
*Institute of Science and Technology*



# Summary

- Mutual information between *trajectories* quantifies the efficiency of (biological) signal processing
- Trajectory MI can only be computed using a *model-based* approach
- Using Monte Carlo simulations we can compute the trajectory MI for complex biochemical signaling networks