

# Statistical Physics Approaches to Systems Biology

## Havana, Feb 2019

ACC Coolen

King's College London and Saddle Point Science

- ▶ mathematical tools
- ▶ introduction to survival analysis
- ▶ the replica method in biomedicine
- ▶ statistical mechanics of overfitting in survival analysis
- ▶ latent heterogeneity and competing risks

technicalities:

important, but are in the handouts  
(pdfs on conference website)

in lectures: please focus on  
*ideas and intuition ...*



[papers, seminars, lecture notes](#)

<https://nms.kcl.ac.uk/ton.coolen>