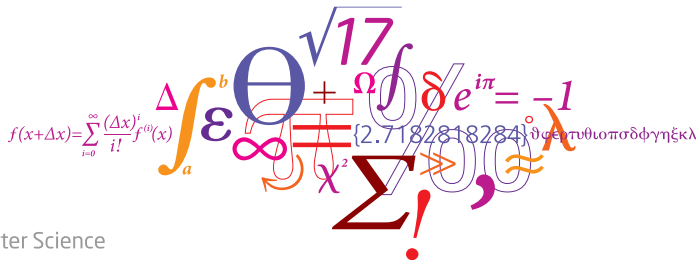


Automated and Early Detection of Disease Outbreaks

Kasper Schou Telkamp

Section for Dynamical Systems



DTU Compute

Department of Applied Mathematics and Computer Science

Outline

- Seasonality model
 - Model formula

$$\log(\lambda_i) = ageGroup_i + \sin\left(\frac{2\pi}{12 \cdot monthInYear}\right) + \cos\left(\frac{2\pi}{12 \cdot monthInYear}\right) \quad (1)$$