

Exponential decay models appear in a wide range of applications!

Applications are found in physics, biology, chemistry, geology, finance, ...

- Population growth (cells, animals, humans)
- Financial engineering
- Radioactivity
- Waiting times for an event to happen
- Chemical kinetics and biochemistry
- Spreading of diseases
- Compaction of the Earth's crust
- Air/fluid resistance
- Pressure in the atmosphere
- Subproblems when solving PDEs
- ...

Study guide: Exponential decay models

Hans Petter Langtangen^{1,2}

Center for Biomedical Computing, Simula Research Laboratory¹

Department of Informatics, University of Oslo²

Oct 10, 2015