



WIR SCHAFFEN WISSEN – HEUTE FÜR MORGEN

Anders Kaestner :: Paul Scherrer Institut

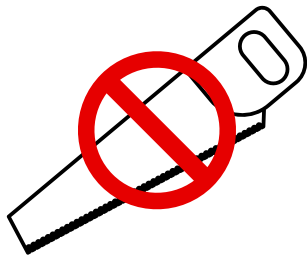
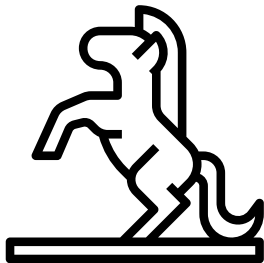
Introduction to Computed Tomography

Part I: Introduction

1 Introducing the lectures

2 Lecture outline

You want to know what is inside an object. . .

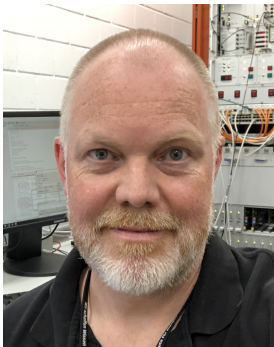


. . . but you are not allowed to cut it into pieces.

We have a solid item to investigate. . .

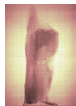
- For a first look of the outside
- Cut the item in pieces
- Next step, use a transmission image



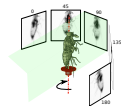


- Beamline scientist neutron imaging
ICON – Paul Scherrer Institut, Switzerland
- Specialized in image processing and tomography
- Open source developer for neutron imaging applications

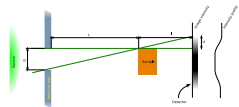
Radiography



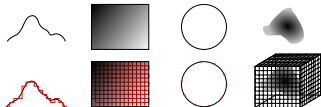
Reconstruction



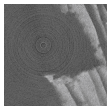
Geometry



Sampling



Artefacts



Enjoy this series of lectures!