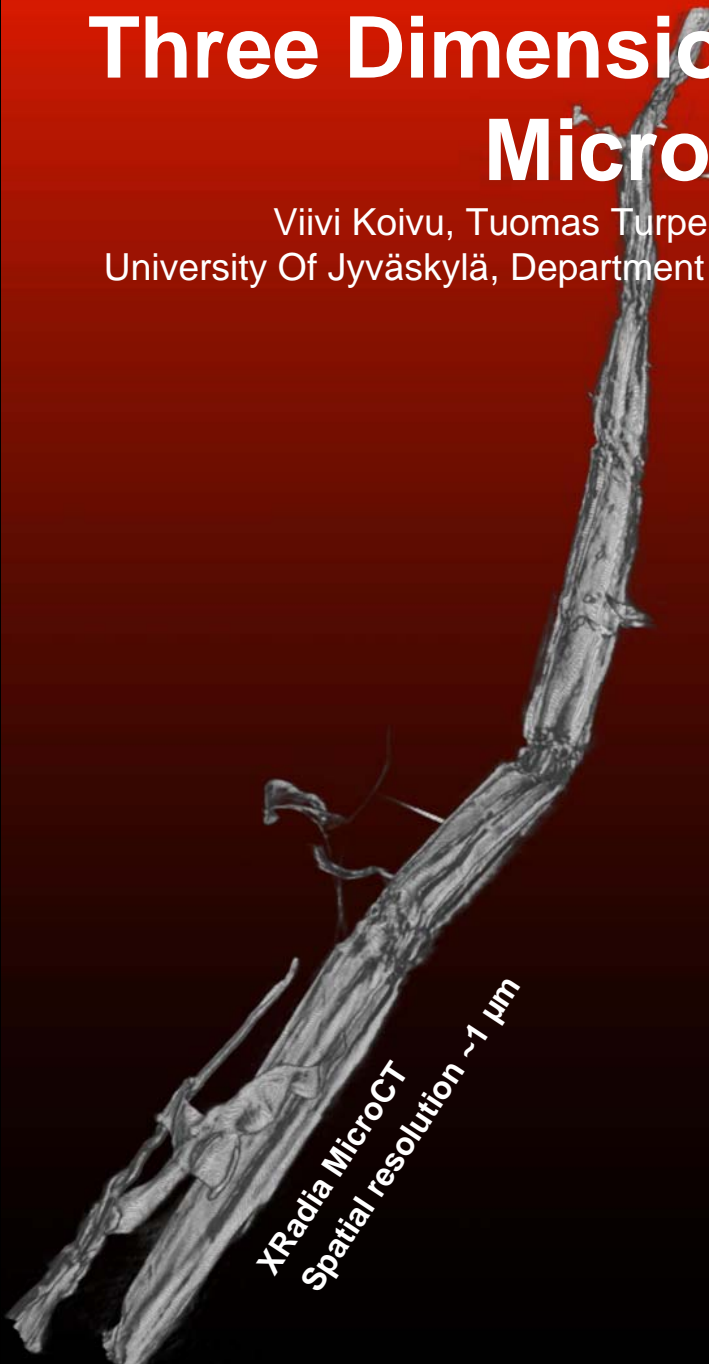
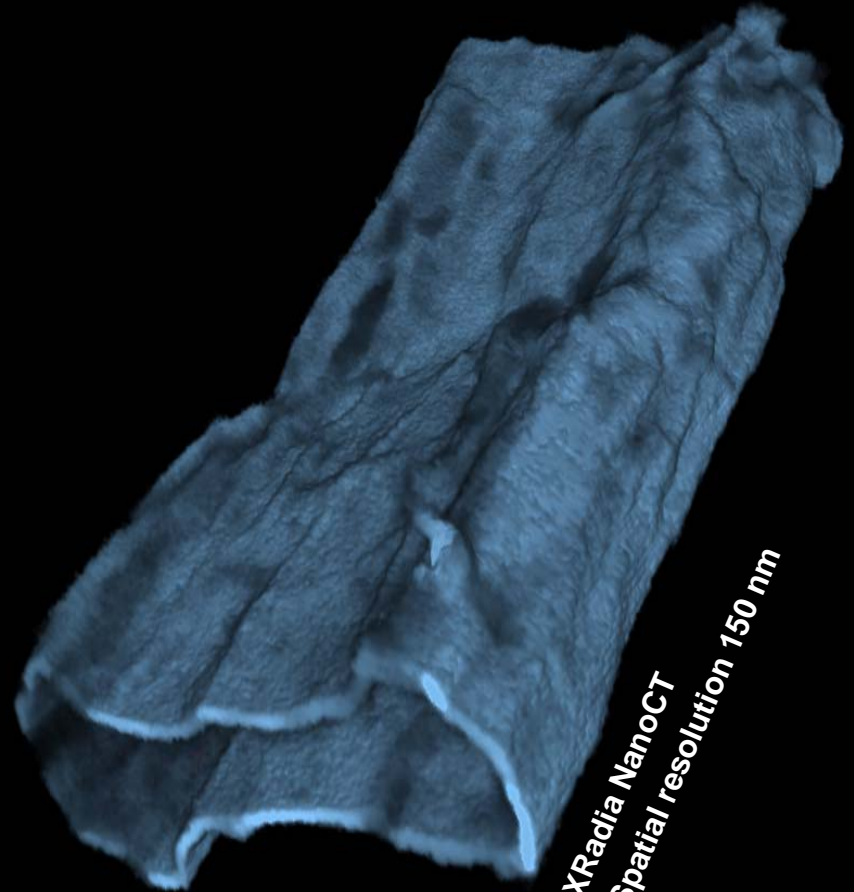


Three Dimensional Single Fibre Imaging in Micro and Nano Scales

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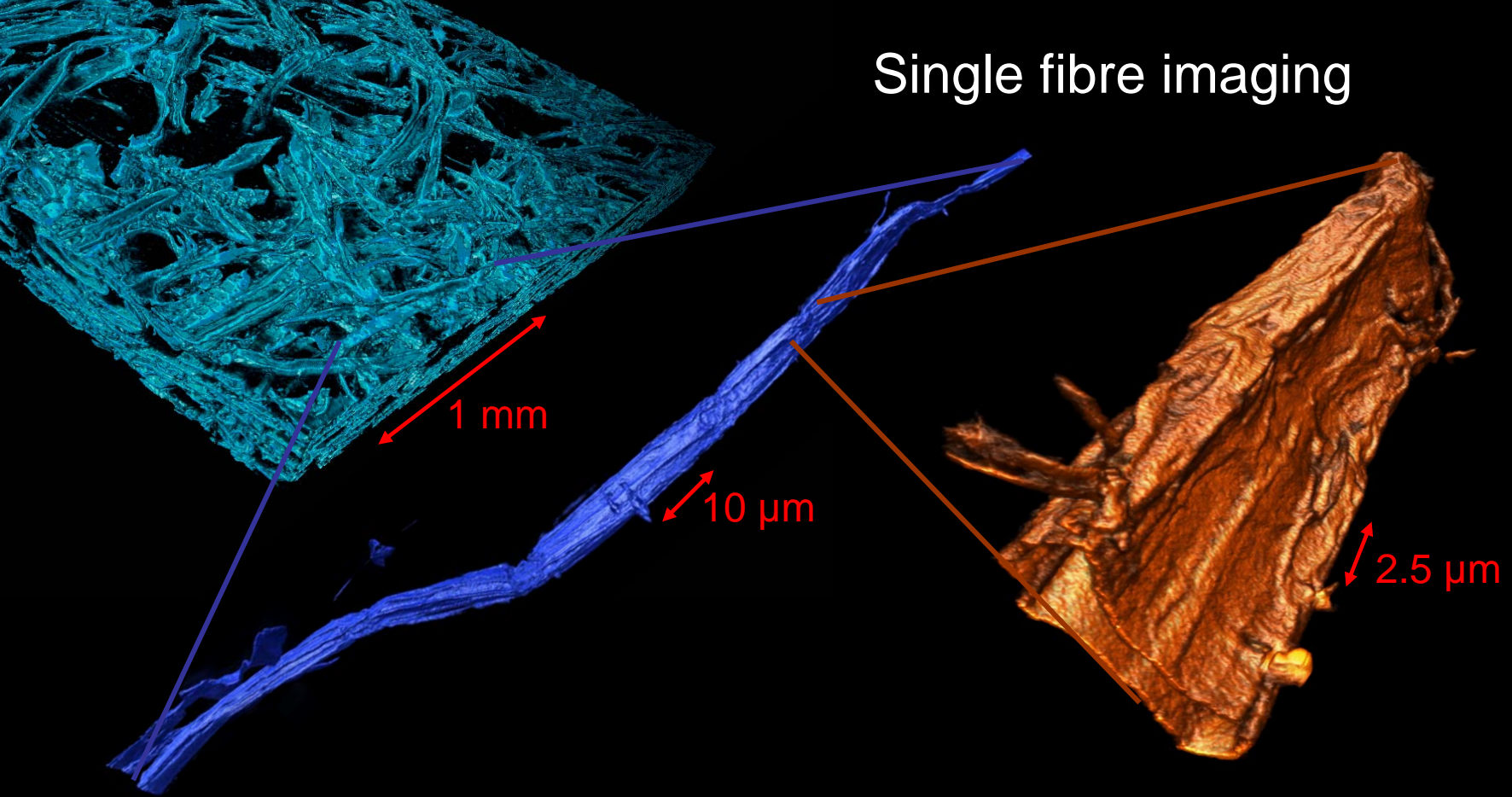


*XRadia MicroCT
Spatial resolution ~1 μm*



*XRadia NanoCT
Spatial resolution 150 nm*

Single fibre imaging



- 3D imaging is possible with the resolution scale ranging from 30 μm down to 50 nm
- Detailed analysis on different length scales:
 - fibrous structures
 - single fibres
 - fibrils and small fragments of fibre wall

Nano-tomography with Xradia nanoCT

- Ultra-high resolution up to 50 nm
- Switchable field-of-view ranging from 15 to 60 μm
- Absorption and phase contrast modes
- Demanding sample preparation
- Demanding alignment and reconstruction procedure
- Energy 8 keV (Cu anode)

Micro-tomography with Xradia microCT

- Spatial resolutions $\sim 20 \mu\text{m} - 0.7 \mu\text{m}$
- Field-of-view from 40 mm - 0.6 mm
- Absorption and phase contrast modes
- Minimal need for sample preparation
- High speed reconstruction
- Maximum energy 80 keV