

## 3D Tomography of Mitotic and Meiotic Spindles

*Thursday, June 11, 2020 3:15 PM (45 minutes)*

We have developed a novel approach of visualizing entire spindles in 3D by electron tomography and automatic microtubule segmentation. Using this approach, we can resolve single microtubules, which provides a unique perspective and offers a plethora of completely new information about the microstructure of spindles. By combining electron tomography, light microscopy, and biophysical modeling we aim to develop a detailed and unprecedented understanding of spindle assembly and chromosome segregation during meiosis and mitosis.