



The Vienna Doctoral Programme on Complex Quantum Systems
invites you to a

Alumnus Talk

by

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iThera Medical GmbH

Multispectral Optoacoustic Tomography for Clinical Applications

Multispectral Optoacoustic Tomography (MSOT) is a novel biomedical imaging technology that utilizes the photoacoustic effect to visualize and quantify anatomical, functional and molecular information, in vivo, in deep tissue and in real time. Today, MSOT allows the study of disease processes on a molecular level as well as the analysis of pharmacokinetic and biodistribution properties for new substances in small animals. Recently, MSOT has been translated by iThera Medical for clinical use and promises to become a valuable diagnostic tool for a variety of diseases, including skin, breast and thyroid cancer.

In my talk, I will discuss the concept and the technology behind MSOT with a focus on image formation and quantification, and introduce some of its currently most promising clinical applications.

**Monday, 28 November 2016,
17:00h get-together with coffee and snacks!**

Lise Meitner Hörsaal, Strudlhofgasse 4, 1st floor, Vienna

Hosted by: Karl Unterrainer