

# MARE BALTICUM LECTURES

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The International Research Training Group  
“Imaging of Quantum Systems”  
and the University of Rostock

cordially invites you to a guest lecture by

**Prof. Dr. Barry Sanders**  
**(University of Calgary)**

on

**"Introduction to quantum data science"**

The lecture takes place  
on October 24<sup>th</sup> 2024 (Thursday) at 1pm  
in Lecture Hall I (Albert-Einstein-Straße 24).

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*Abstract: Data Science, which is a vastly important field, encompasses the tasks of capturing, maintaining, processing, analysing and communicating data. Quantum computing, which replaces binary information and Boolean logic by quantum information and processing, could radically transform aspects of data science. I provide a perspective on quantum computing for data science, including a dive into state-of-the-art for both hardware and algorithms. arXiv:2302.08666*

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***Prof. Barry Sanders is a guest at the University of Rostock as part of the Mare  
Balticum Fellowship Program at the University of Rostock.***