

Bremen, 2023-09-04

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## Licensing to the doctorate

The doctorate committee of the FB3 decided to admit on  
**September 4<sup>th</sup>, 2023**

**Mr. Vladimir Vutov**

with the thesis:

**Large-scale multiple testing under arbitrary covariance  
dependency and topological data analysis for mass  
spectrometry imaging applications**

to the doctorate of natural sciences and ordered as a consultant  
according to § 8 (3, 4) of the doctorate order:

**Prof. Dr. Thorsten Dickhaus      University of Bremen, Faculty 3**

**Prof. Dr. Werner Brannath      University of Bremen, Faculty 3**

The consultants are asked to provide their review up to  
**October 16<sup>th</sup>, 2023.**

The dissertation is available for inspection in accordance with § 7  
(6) of the doctoral regulations in the MZH, room 5440.

Yours sincerely  
on behalf of



Silke Voelkers

University of Bremen  
Faculty 3  
Ph. D. Committee's Office  
Dr.-Ing. / Dr.rer.nat.