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## Stellenausschreibung Reg.-Nr. 11/2015

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The German Centre for Integrative Biodiversity Research (iDiv) is one of four National Research Centres funded by the German Research Foundation (DFG). It is located in the city of Leipzig and jointly hosted by the Martin Luther University Halle-Wittenberg (MLU), the Friedrich Schiller University Jena (FSU), the University of Leipzig (UL), and the Helmholtz Centre for Environmental Research (UFZ). It is supported by the Max Planck Society, the Leibniz Association, the Klaus Tschira Foundation and the Free State of Saxony. Its central mission is to promote theory-driven synthesis and data-driven theory in this emerging field. The concept of iDiv encompasses the detection of biodiversity, understanding its emergence, exploring its consequences for ecosystem functions and services, and developing strategies to safeguard biodiversity under global change.

Biodiversity Theory is one of the research groups at iDiv. It aims at describing natural communities by network models comprising the species and their interactions. These complex models are used to understand environmental and anthropogenic constraints on biodiversity as well as the consequences of biodiversity changes for ecosystem functions. Future research will focus on mathematical modeling of the stability and energy fluxes in complex ecological networks, the integration of ecological and biogeochemical models of carbon and nutrient cycles, the combination of ecological and socio-economic models and scaling of biodiversity and functional processes to the landscape level.

The University of Jena offers the following positions in Leipzig:

### **3 Postdoctoral researchers on "Biodiversity Theory"**

*(initially limited until September 30<sup>th</sup>, 2016 with possibility of extension subject to the further funding of iDiv, full-time employment, Salary: Entgeltgruppe 13 TV-L)*

#### **Topic / job description:**

- mathematical description of ecological systems
- programming ecological models in C and R or similar languages
- write scientific papers on the project in internationally peer-reviewed journals
- present the research at national and international meetings
- supervise MSc/PhD students
- take part in teaching activities at iDiv or FSU Jena

#### **Requirements / expected profile:**

- a PhD degree in biology, ecology, mathematics, physics or a similar discipline
- strong quantitative skills including mathematical, computational and ecological programming
- experience in ecologically-relevant theory (e.g., metabolic theory, food-web theory, ecological stoichiometry) and quantitative statistical modeling
- excellent knowledge of the English language in speaking and writing, evidenced by your publication record
- experience in training or supervising students
- independent mind with a clear drive to do science

The postdocs will be expected to work together on projects, utilizing their complementary skills and collaborate with other iDiv research groups to undertake high-impact research.

**Applications** are accepted until **March 3rd, 2015** and should include a letter of motivation, curriculum vitae, two letters of recommendation and PhD, MA/BA/Diploma certificates.

Applications should be sent to [application@idiv.de](mailto:application@idiv.de) in a single PDF file with registration no. 11/2015 in the subject line and be addressed to Prof. Dr. Ulrich Brose. We prefer applications in electronic form. Hard copy applications can be sent to German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig; Prof. Dr. Ulrich Brose; Deutscher Platz 5e; 04103 Leipzig.

For queries on the application process or more information on this position please contact Prof. Dr. Ulrich Brose at [ulrich.brose@idiv.de](mailto:ulrich.brose@idiv.de) or telephone number 0341/97 33205.

Applying via email is questionable under data protection law. The sender assumes full responsibility.

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Severely disabled persons are encouraged to apply and will be given preference in the case of equal suitability.