# Research Title

## 1. Scientific field of the research group

### 1.1 General research topic, preliminary work

Overview of the topic of research and already achieved results by the group

### 1.2 Publications

List of most important publications of the research group in the last five years (author, title, journal, volume, page, year)

## 2. Description of current and planned projects, justification of the requested resources at the Goethe-HLR

### 2.1 Current research

Short description of current research projects (if applicable, grant agency), which is the basis for the need of the Goethe-HLR resources, concise description of the state-of-the-art in direct relation to the projects planned at the Goethe-HLR

### 2.2 Planned Research

Summary of the planned projects with involvement of the Goethe-HLR, with following information:

Scientific question

Goal of the research

Methods and algorithms to be used

* + 1. Project 1...
    2. Project 2...

### 2.3 Necessity of the Goethe-HLR

Statement demonstrating the need to use the Goethe-HLR with its specific capabilities and resources.

2.4 Users of the research group

List of the group members that require access to the computer

### 2.5 Joint research activities with third parties

Usage of the computer in joint research projects with other institutions (MPG, FhG, Helmholtz, …) or industrial partners

### 2.6 Requested resources

Requested computing resources by the research group over one year in units of CPU-Core Hours (definition see below) and GPU Hours, specifically:

* total CPU-Core Hours
* total GPU Hours
* typical duration of a job
* typical number of cores per job

Note: the adopted accounting unit CPU-Core-Hour implies 4,.7 GB RAM. If you require more RAM memory, the number of CPU-Core-Hours will be scaled accordingly

File storage is available per user: 10 GB on /home (backup) and 5 TB on /scratch (no backup). The available storage per user can be increased on request temporarily

## 3. Contact Information

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