

## Hosting group information for applicants

Name of DKFZ research division/group:  
**Medical Physics in Radiology (E020)**

Contact person: **Prof. Mark E. Ladd, mark.ladd@dkfz.de, Tel. +49 6221 422550**

Group homepage: **[www.dkfz.de/en/medphysrad/index.php](http://www.dkfz.de/en/medphysrad/index.php)**

Please visit our website for further information on our research and recent publications.

### RESEARCH PROFILE AND PROJECT TOPICS:

The Division of Medical Physics in Radiology plays a pivotal role in developing new and optimizing existing methods for all imaging-based diagnostic and therapeutic procedures. We are working on new methodology for magnetic resonance imaging (MRI), positron emission tomography (PET), and optical imaging, with a particular focus on ultra-high-field MRI at 7 Tesla. We are also developing new targeted contrast agents that enable the monitoring of molecular processes in vivo. We work on projects involving new image acquisition or reconstruction methodologies, and we develop innovative hardware components and perform numerical simulations to optimize designs and ensure safe use.



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