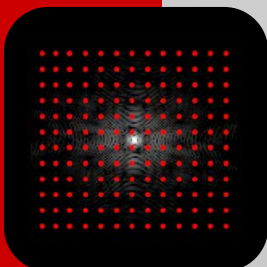
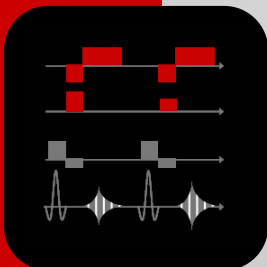


# Research Tools and Data Handling Course

September 12-15 2011, Zurich, Switzerland



Targeting basic and clinical scientists, this 4-day course provides background knowledge and hands-on of several research options available on the Philips Achieva/Ingenia platform to allow the temporary modification of pulse sequences, diagnosis of image artifacts, handling of different image and research data formats, connecting hardware to the system, reconstructing images from MR raw data using ReconFrame and post-processing using the PRIDE platform. Hands-on sessions at the scanner allow to practice newly acquired skills.

#### Monday:

- Introduction of system architecture
- Sequence development
- Pulse sequence and image artifact inspection
- Exercise: Sequence development and inspection

#### Tuesday:

- Image reconstruction / ReconFrame
- Standard file formats in Imaging and Spectroscopy
- Tools to import and process exported data
- Database queries using ISQL
- Data anonymization
- Introduction to Perl
- Exercise: Image converter in Perl

#### Wednesday:

- Exercise: Setting up fMRI hardware
- Introduction of IDL
- PRIDE and DRIN
- Exercise: PRIDE project

#### Thursday:

- Introduction of system hardware
- Connecting 3rd party and own coils
- Safety aspects
- Advanced image reconstruction
- Exercise: ReconFrame

**Course fee:** 2300 EUR

**Registration:** Online at [www.gyrotools.com](http://www.gyrotools.com)