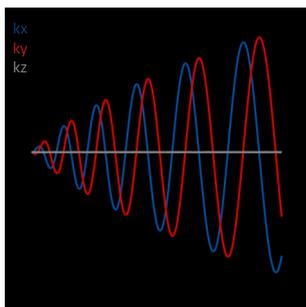skope

YOUR IMAGE PRODUCTION SOFTWARE FOR FAITHFUL IMAGING
## TURNING FIELD KNOWLEDGE INTO IMAGE QUALITY

K-space trajectories

### State-of-the-art image reconstruction for advanced research

Skope's image production software provides a versatile framework to reconstruct MR images based on actual encoding dynamics. The k-space trajectories measured by the Cameras and the raw data from the MR scanner are combined to be used by a rigorous algebraic image reconstruction algorithm. Field perturbations, as well as B0 and coil sensitivity information are taken into account during image reconstruction, allowing the production of more reliable and reproducible MRI data.
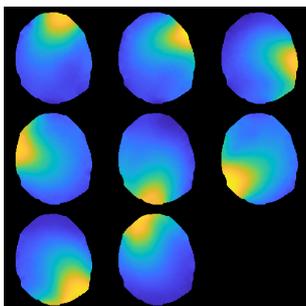
Receive coil sensitivity map

Save time and focus on your applications

Developing and maintaining robust image reconstruction software requires significant engineering efforts. Additional post-processing steps to correct image artifacts are rendered superfluous given skope-i takes full advantage of the encoding data measured by the Cameras (e.g. including higher-order k-space encoding). Saving valuable engineering time, the images produced by skope-i are ready to be used in subsequent data analysis.
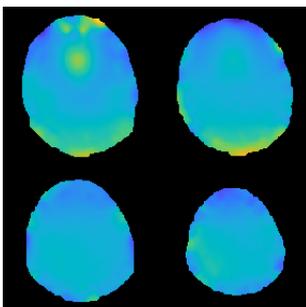

Static B0 map

Seamless integration into your workflow

Incorporating new image reconstruction software into an efficient workflow can decelerate current projects and studies. Skope-i provides the means to convert measured MR data into high quality images with minimal user input. The usage of standard input (ISMRMRD) and output (DICOM/MATLAB) formats facilitates the sharing of data and the integration of the software into already existing data processing pipelines which also enables the direct comparison of resulting data.

skope-i, image production software

The skope-i, image production software complements the Skope solution, providing images after combining the MR data and Skope raw data. Reconstruction of image data from arbitrary k-space acquisition is possible through the general-purpose algorithm implemented in skope-i.
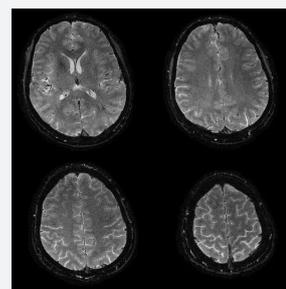
Images acquired with spiral encoding