

### Sampling:

CS-factor	VPS	Scan time [s]
1	4	2min 40s (*)
2	2	2min 40s (**)
2	4	1min 20s
2.4	2	2min 13s
2.4	4	1min 7s
3	2	1min 47s
3	4	53s
4	2	1min 20s
4	4	40s

(\*) reference data with complete  $k$ -space

(\*\*) only for the flow phantom

### Data acquisition:

Using multichannel coil

Coil sensitivity maps

### Joint Reconstruction

Convex optimization problem,  
method of nonlinear  
conjugate gradient

Sparsifying transformation:  
Temporal FFT

Sparsifying transformation:  
Temporal PCA

Velocity calculation from phase  
images

**Strain Rate Maps**