Fiber Orientation and Compartment Parameter Estimation from Multi-shell Diffusion Imaging

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- Incorporate compartment models into a spherical deconvolution framework for fiber orientation distribution (FOD) reconstruction
- Develop an adaptively constrained energy minimization approach with L1-regularization to encourage non-negativity and sparsity of FOD
- Reconstruct FOD with ultra-sharpness + obtain reliable estimations of compartment parameters on simulated data, Human Connectome Project data, and clinical data