

Steps:

1. Start with  $\delta = 10$ , estimate fiber directions with  $M = 3$ .
2. Perform 5 trials with random initialization. Keep the results with convergence energy  $e$  below the predefined threshold  $t$ . We call these “valid”.
3. If the number of valid results is below 3, increase  $\delta$  by 10 and perform Step 2 again.
4. The number of fibers  $M^*$  is determined by the minimum number of fibers among the valid results.
5. If there're more than one result such that the estimated number of fibers is equal to  $M^*$ , take the mean of their directions and fractions as the final output.