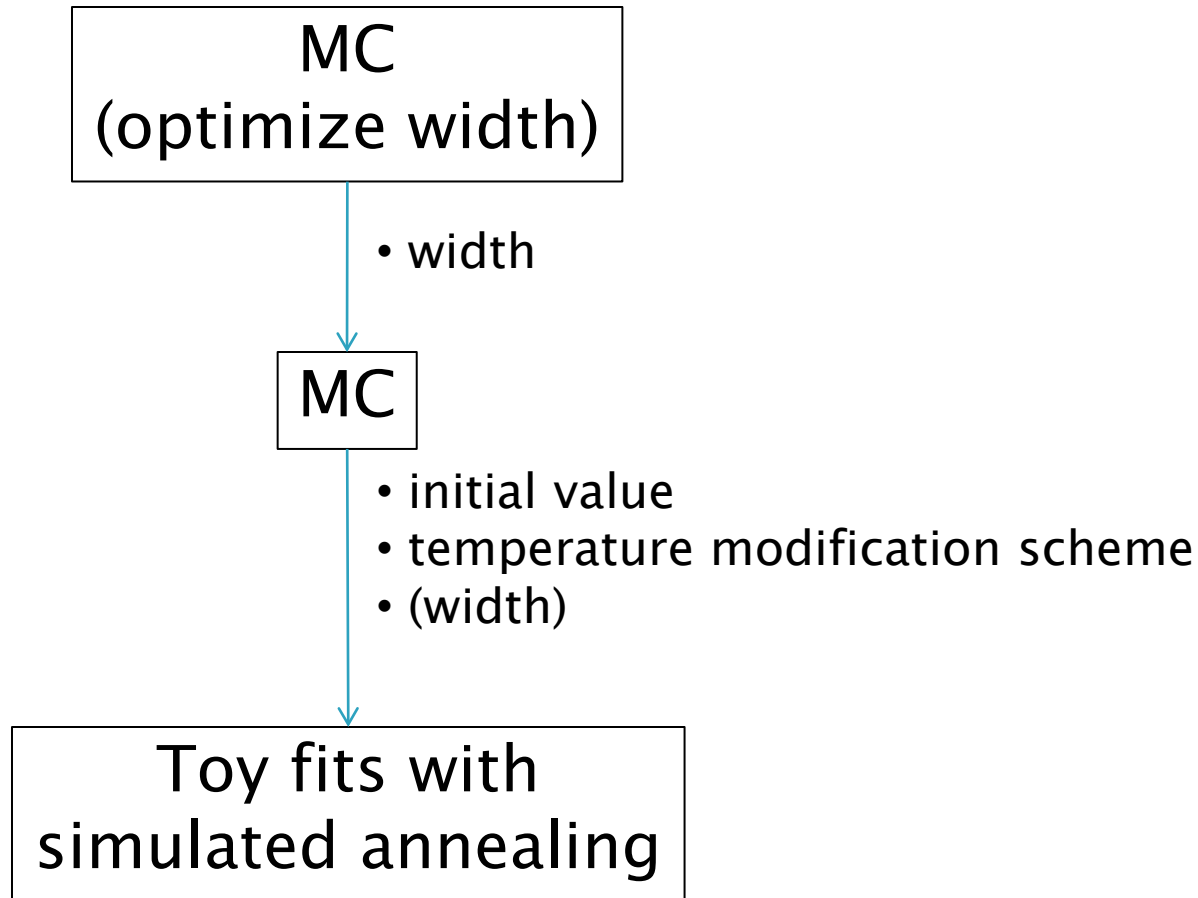


Simulated annealing improvement

- ▶ Many fits are needed for studying the particle assignment ambiguities
 - First run Markov chain to understand quickly which combination is worth looking at in detail
 - Then run toy fits with **simulated annealing** for detail analysis
 - Currently, it takes a few days to finish 200 toy fits with simulated annealing
- ▶ Ideas on speeding up simulated annealing fits
 - Set the initial parameters based on the result of the Markov chain
 - Possibility of further optimization
 - Starting temperature
 - Temperature reduction steps
 - Number of iterations at each temperature

Fit steps



Chi2 vs. iteration

