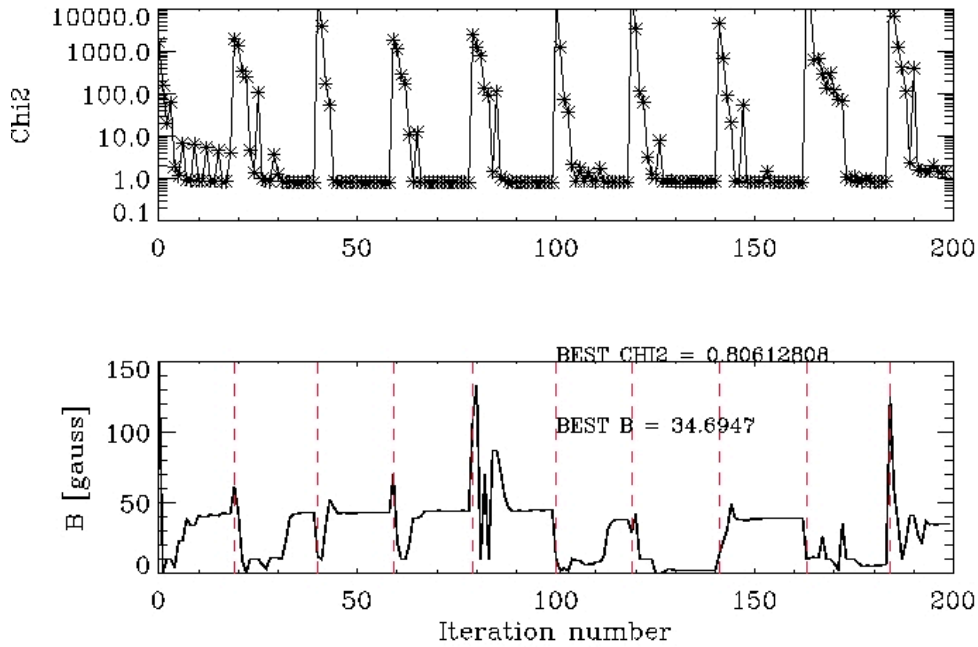
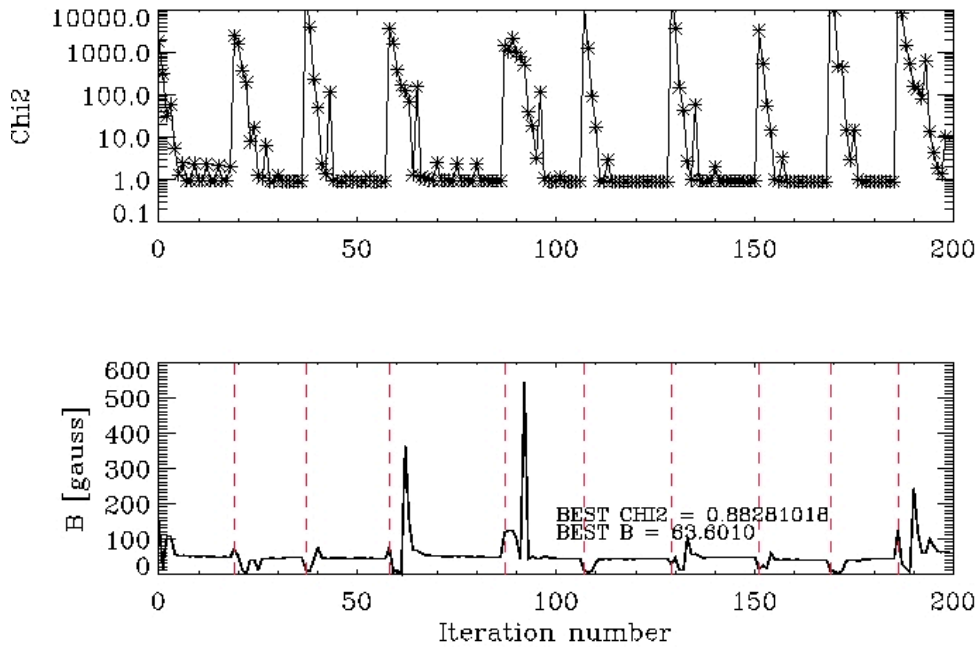


Test: what happens with the chi2 and the magnetic field strength as a function of the iteration number in the inversion code? I inverted 4 different quiet Sun pixels around disk center and a pixel inside a sunspot just for comparison.

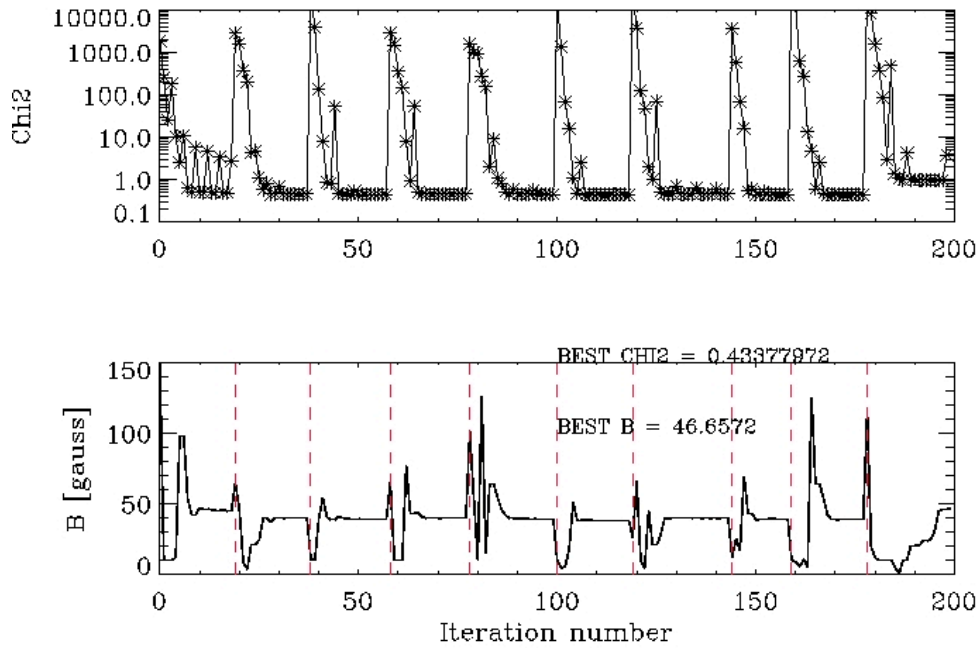
QS pixel 1 (minimum chi2 reached at iteration 54):



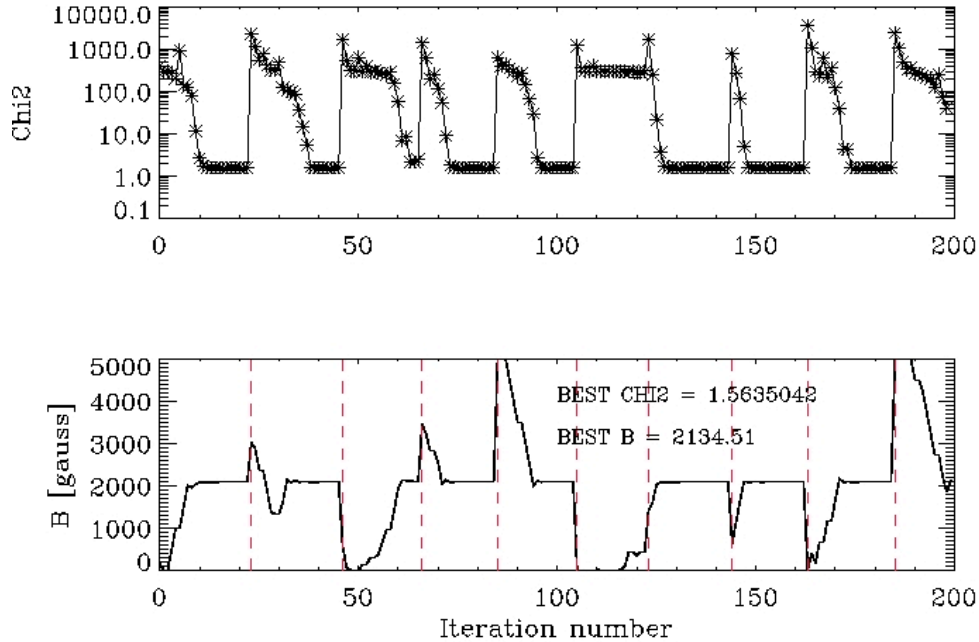
QS pixel 2 (minimum chi2 reached at iteration 179):



QS pixel 3 (minimum chi2 reached at iteration 155):



Sunspot pixel (minimum chi2 reached at iteration 43):



The red vertical dashed lines indicate where a random perturbation has kicked the model to a different initial guess. In these tests, the convergence criteria was set such that all pixels would go to 200 iterations. Weights are [1,3,3,2]