Summary of the meeting:

1, it is hard to tune a spiking system by hand, so we need an automatic algorithm for this

Things to do:

1, read paper Online estimation of biophysical neural networks

2, reproduce algorithm in this paper

3, To understand the proofs:

 (i) understand the linear theory, which is the MRAC model of adaptive control (Astrom Wittenmark)

(ii) understand that the nonlinear generalisation rests on the concept of contraction.

The seminar paper about contraction analysis is Slotine and Lohmiller, Automatica, 1998.

4, to investigate question of redundancy in spiking system.