

1. Can you explain how you get from (5) to (7)?

• Answer:

2. What is the external input? is it the same as the field disturbance? if it is we can't set it to zero, and if it is not we need to consider field disturbance.

• Answer:

3. For the simulation are we treating  $v_0(r)$  as a constant? otherwise I think it causes some difficulties for us in (17) as we need to be able to calculate the convolution integral.

• Answer:

4. We need observation noise in (27)- I have a silly question, the signal we are measuring by implanted EEG is  $v_t$  right?

• Answer:

## Some comments

Our basis functions are not orthonormal(see above 16). Although it might worth investigating since it makes things easier. There are some typo in equations:  
equation1:

$$v(s, t) = \int_{-\infty}^t h(t - t') J(s, t') dt'. \quad (1)$$

equation5:

$$v(s, t) = \int_{-\infty}^t \int_{\Omega} [h(t - t') W(s, r) P(v(r, t)) + E(s, t')] dr dt' \quad (2)$$

equation13:

$$\begin{aligned} v_{t+1}(s) = & \frac{R_0}{2} \int_{\Omega} W(|s - r|) \bar{v}_0(r) dr \\ & + \frac{R_0}{4} \beta \int_{\Omega} W(|s - r|) v_t(r) dr \\ & + \varepsilon_t(s) - \frac{1}{\tau} v_t(s), \end{aligned} \quad (3)$$