

# integration + Levenberg–Marquardt (Numerical Recipes)

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Hello,

I am having problems getting my fitting function derivatives correct for the Levenburg–Marquardt fitting routine.

I have a differential in the following format:  
 $dAB/dt = ka*A(Bo-AB) - kd*AB$

additional:

A is constant

I'm fitting ka,Bo and kd

I am getting the integrated format of the formula via numerical integration (this is a test equation, they will get more difficult).

The integration is correct when I test the resulting data but I don't know how to properly get parameter derivatives for the fitting function.

How do I generate the parameter derivatives (dyda in the LM fitting function) without the integrated form of the formula (i only have it numerically).

Thank you for any hints.

Jamie

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