

## Matrix calculations using Excel

You can do some basic matrix calculations with MS Excel.

First put in the values of your matrices

To multiply two matrices:

- select an area of the size of the resulting matrix
- type: **=MMULT(**
- select the area of the first matrix
- type a comma (,)
- select area of the second matrix
- type a close bracket )
- on windows: press: Ctrl\_Shift\_Enter    on Mac: press Cmnd\_Shift\_Enter

To add or subtract a matrix (vector):

- select an area of the size of the resulting matrix
- type: = (
- select the area of the first matrix
- type a + or -
- select area of the second matrix
- type a close bracket )
- press: Ctrl\_Shift\_Enter

To invert a matrix:

- select an area of the size of the resulting matrix
- type: **=MINVERSE(**
- select the area of the first matrix
- type a close bracket )
- press: Ctrl\_Shift\_Enter

To transpose a matrix (vector):

- select an area of the size of the resulting matrix
- type: **=TRANSPOSE(**
- select the area of the first matrix
- type a close bracket )
- press: Ctrl\_Shift\_Enter