

# LaTeX code for documentation files

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**coefficient\_\_manova**

$$\mathbf{Y}_m = \beta_{m0} + \mathbf{X}_m \mathbf{B}_m$$

$$\mathbf{B}_1 = \mathbf{B}_2 = \dots = \mathbf{B}_m$$

**coef\_\_welch**

$$y_i = \beta_{10} + \beta_{11}x_{i1} + \beta_{12}x_{i2} + \beta_{1i} \tag{1}$$

$$y_i = \beta_{20} + \beta_{21}x_{i1} + \beta_{22}x_{i2} + \beta_{2i} \tag{2}$$

$$y_i = \beta_{30} + \beta_{31}x_{i1} + \beta_{32}x_{i2} + \beta_{3i} \tag{3}$$

$$H_0 : \beta_{11} = \beta_{21} = \beta_{31}$$

$x_1$

$x_2$