

X_YLaTeX SMath Studio Document

generated by Data Exchange plugin for SMath Studio

Data Exchange: exportData functions

$$A := \begin{bmatrix} 10^{-15} & 2.3 \text{ kN} & \frac{4}{5} & -57.1 & \left[\sin(\sqrt{2}) \quad \text{"a nested simple text"} \right] \\ \sin(\sqrt{2}) & \text{"a simple text"} & e^{50} & 3 > 2 & \text{"a more "complex" text"} \end{bmatrix}$$

same directory of the current sm sheet (relative path)

`outputDirectory := "."`

custom directory (absolute path)

`outputDirectory := "c:\windows\desktop"`

`outputDirectory := "c:\documents and settings\YOUR_WIN_ACCOUNT\desktop"`

`outputDirectory := "c:\users\YOUR_WIN_ACCOUNT\desktop"`

export SMath data -> CSV file

`exportData_CSV(A, "my SMath CSV output") = 1`

`exportData_CSV(A, "my SMath CSV output", outputDirectory) = 1`

export SMath data -> ODF formula

`exportData_ODF(A, "my SMath ODF output") = 1`

`exportData_ODF(A, "my SMath ODF output", outputDirectory) = 1`

`exportData_ODF(A, "my SMath ODF output") = 1`

$$\text{exportData_ODF}\left(M = \begin{bmatrix} -\frac{10^{-15} \cdot \pi}{12.6} & 2.3 \frac{\text{kN}}{\text{Hz} \mu\text{V}} & F_{sub} & x \cdot 2.5 & W \\ \sin(\sqrt{2}) & \text{"a simple text"} & e^{50} & 3 > 2 & x \vee y \end{bmatrix}, \text{"my SMath ODF output"}\right) = 1$$

when possible the output will be:

input as written -> symbolic simplification -> numeric evaluation

$$\phi := \frac{\pi}{5}$$

$$f(\theta) := \sin(2 \cdot \theta)$$

$$f(\phi) \Rightarrow \sin\left(\frac{2 \cdot \pi}{5}\right) \Rightarrow 0.951056516295154$$

Figure 1: Type figure caption here

`exportData_ODF(f(φ), "my formula") = 1`

export SMath data -> ODS spreadsheet

`exportData_ODS(A, "my SMath ODS output") = 1`

`exportData_ODS(A, "my SMath ODS output", outputDirectory) = 1`

export SMATH data -> XLSX spreadsheet

`exportDataXLSX (A, "my SMATH XLSX output") = 1`

`exportDataXLSX (A, "my SMATH XLSX output", outputDirectory) = 1`