REAL-TIME IAT_EX DEMONSTRATION MARCH 2, 1998

DOUG MEADE AND GEORGE MCNULTY

Here is some *emphasized* text.

And, now, some mathematics α that is in a paragraph. β Hereissometexttypesetinmathmode. And, again, with **displayed math mode**:

 $\alpha\beta$ And, as before, some text.

But, this time it is not a part of the paragraph.

And, as before, some text.

the, if, floor. the, if, floor.

the, if, floor. the, if, floor. the, if, floor. the, if, floor.

Here are some math symbols that I know:

$\longrightarrow \Longrightarrow \longleftarrow \Leftarrow \heartsuit$	
Font	Example
regular	x
mathit	x
mathrm	Х
mathbf	х
mathsf	Х
mathtt	х
regular	X
mathbb	\mathbb{X}
mathcal	\mathcal{X}
regular	+
boldsymbol	+
mathbf	+
$ \begin{pmatrix} 0 & 1 \\ 2 & 3 \end{pmatrix} $ $ \begin{cases} 0 & 1 & 2 \\ 3 & 4 & x^2 \end{bmatrix} $	

Here is a matrix that is typeset in a paragraph. $|{}^{0}_{2}{}^{1}_{3}| = \det \left({}^{0}_{2}{}^{1}_{3} \right)$ See, isn't that neat?

Date: March 2, 1998.

Next, we look at fractions: $\frac{\alpha}{1+\infty}$ and roots $\sqrt{\beta}$ and $\sqrt[3]{1+\frac{1+x}{1+\alpha}}$ Superscipts and subscripts: σ_3 and σ^3 . What will \sigma^3.14 yield? Answer: $\sigma^3.14$.

Sums, etc.: inline: $\sum_{i=0}^{i=100}$ displayed:

 $i{=}100$ $\sum_{i=0}^{1}$

 $\alpha^\beta_{\gamma^\delta_\epsilon}$