# REAL-TIME ATEX DEMONSTRATION $^{\text {D }}$ <br> MARCH 2, 1998 

## DOUG MEADE AND GEORGE MCNULTY

Here is some emphasized text.
And, now, some mathematics $\alpha$ that is in a paragraph. $\beta$ Hereissometexttypesetinmathmode And, again, with displayed math mode:

$$
\alpha \beta A n d, \text { asbefore, sometext. }
$$

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

$$
\longrightarrow \Longrightarrow \longleftarrow \Leftarrow 0
$$

| Font | Example |
| :---: | :---: |
| regular | $x$ |
| mathit | $x$ |
| mathrm | x |
| mathbf | $\mathbf{x}$ |
| mathsf | x |
| mathtt | x |
| regular | $X$ |
| mathbb | $\mathbb{X}$ |
| mathcal | $\mathcal{X}$ |
| regular | + |
| boldsymbol | + |
| mathbf | + |

$$
\begin{gathered}
\left(\begin{array}{ll}
0 & 1 \\
2 & 3
\end{array}\right) \\
\left\{\begin{array}{ccc}
0 & 1 & 2 \\
3 & 4 & x^{2}
\end{array} \|\right.
\end{gathered}
$$

Here is a matrix that is typeset in a paragraph. $\left|\begin{array}{ll}0 & \frac{1}{3} \\ 3\end{array}\right|=\operatorname{det}\left(\begin{array}{ll}0 & \frac{1}{2} \\ 2 & 3\end{array}\right)$ See, isn't that neat?

[^0]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: $\sigma_{3}$ and $\sigma^{3}$.
What will \sigma^3.14 yield? Answer: $\sigma^{3} .14$.

$$
\alpha_{\gamma_{\epsilon}^{\delta}}^{\beta}
$$

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

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


[^0]:    Date: March 2, 1998.

