Illustration of Bug When Importing Equations With ħ From Microsoft Word

Bug 1: Schroedinger's Equation

In the following MathType 5.0 object, the two instances of hbar are rendered as h when imported into OpenOffice.org. The vector arrows over the r's are also rendered too high (Issue 3780, marked Closed, but still broken).

Schroedinger's Equation: $$j \times \hbar \times \frac{\partial \psi(r,t)}{\partial t} = -\frac{\hbar^2}{2 \times m} \times \nabla^2 \psi(\vec{r},t) + U(\vec{r},t) \times \psi(\vec{r},t)$$

The intended formula is

```
j cdot hbar cdot {{partial %psi(vec r,t)} over {partial t}}
   =
-{hbar^2 over {2 cdot m}} cdot nabla^2 %psi(vec r,t)
 + U(vec r,t) + %psi(vec r, t)
```

Bug 2: Momentum Operator

In the following Microsoft Equation Editor object, when the Microsoft Word 2003 document is first imported into OpenOffice.org, the hbar is displayed as a placeholder box. After double-clicking on the equation in OpenOffice.org, the placeholder box is correctly rendered as hbar.

Momentum operator: $\frac{\hbar}{j}\frac{\partial}{\partial x}$