## setIndexed

#### In[2]:= ? setIndexed

```
setIndexed[x] set symbol x as indexed variable,
i.e. x[i], x[i, j] will have sub– and superscripts in Traditional form
```

## setPrime

#### In[9]:= ? setPrime

setPrime[x] set symbol prime`x in traditional form to have prime (') as superscript

```
In[14]:= prime`x[1] // TraditionalForm
Out[14]//TraditionalForm=
       x'_1
In[15]:= prime`x[1] // TeXForm
Out[15]//TeXForm=
       x'_1
In[16]:= Clear[prime`x]; Remove[prime`x]
```

### setBar

```
In[17]:= ? setBar
```

setBar[x] set symbol bar`x in traditional form to have overbar

```
In[18]:= setBar[x]
In[19]:= bar`x // TraditionalForm
Out[19]//TraditionalForm=
       \overline{X}
In[20]:= bar`x // TeXForm
Out[20]//TeXForm=
       \text{bar}\{x\}
In[21]:= Export["/tmp/barx.tex", bar`x // TraditionalForm]
Out[21]= /tmp/barx.tex
In[22]:= Run["pdflatex", "-output-directory=/tmp", "/tmp/barx.tex"]
Out[22]= 0
In[23]:= Clear[bar`x]; Remove[bar`x]
```

## matrixElement

```
In[24]:= matrixElement["annihilation"] // TraditionalForm
Out[24]//TraditionalForm=
       \mathcal{M}_{annihilation}
In[25]:= matrixElement["annihilation"] // TeXForm
       \mathcal{M}_{\text{annihilation}}
```

# **UnderBar**

UnderBar is shortcut for HoldForm

```
In[26]:= 1 + 2 + \underline{a + b}
\mathsf{Out[26]} = \ 3 + \left(a + b\right)
 In[27]:= Needs ["RG`Presentation`"]
 ln[28] := 1 + 2 + \underline{a + b} + (\underline{a + b})^2 + \underline{(c + d)^4} // colorize[\underline{HoldForm}]
\mathsf{Out} [\mathsf{28}] = \ 3 \, + \, \left(a + b\right) \, + \, \left(a + b\right)^2 \, + \, \left(c + d\right)^4
```