

TeXmacs will display $a[0]$ as a_0 , which is very nice. However, it is dangerous practice if we simply use the “list” for the purpose of displaying subscript. It will be very nice if TeXmacs is smart enough to display the output of Maxima, a_0 , as a_0 , which will make long expression much easy to read. In the same time, TeXmacs should display $a[0]$ as it is without making it look like a_0 to prevent confusion.

```
maxima] E=a[0]*exp(%i*theta);
```

```
(%o1)  $E = a_0 e^{i\theta}$ 
```

The greek can be input as “theta” and TeXmacs will display it as θ , but this nice feature will break as soon as it is used in “E_theta” or “theta_1”. If they can be displayed as E_θ or θ_1 by following my previous argument, it will make TeXmacs much nicer frontend for Maxima.

Also, I don’t know why “E_theta” is displayed as E’theta in my session output line (see below). It seems to be bug to me.

```
(%i2) E_theta=E*cos(theta_1);
```

```
(%o3) E'theta = cos(theta`1) E
```

```
(%i4)
```