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Subject: sqrt in legend() crossing power index  
Posted by [Gregory](#) on Thu, 12 May 2016 17:26:19 GMT  
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I am trying to write something on a plot, and using `\sqrt{}` in latex mode in `legend()` function produces somewhat annoying appearance - sqrt feature crosses power index: it can be seen in the example below.

```
p=plot([0,1],[0,1],name='best fit function 2.35w$\sqrt{N^2 + EF\slash w}$')  
legend=legend(target=[p],pos=[0.8,0.3])
```

Anyone knows how to fix that?  
I am using idl8.3 in this case.

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Subject: Re: sqrt in legend() crossing power index  
Posted by [wlansman](#) on Thu, 12 May 2016 19:52:27 GMT  
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You can make the exponent smaller with the !E positioning command

```
p=plot([0,1],[0,1],name='best fit function 2.35w$\sqrt{N!E2!N + EF\slash w}$')
```

though it still overlaps the square root top bar.

I'd probably just write out "SQRT( )" rather than make the symbol. --Wayne

On Thursday, May 12, 2016 at 1:26:20 PM UTC-4, Gregory wrote:

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Subject: Re: sqrt in legend() crossing power index  
Posted by [lecacheux.alain](#) on Fri, 13 May 2016 09:39:22 GMT  
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Le jeudi 12 mai 2016 21:52:30 UTC+2, wlansman a écrit :

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>> produces somewhat annoying appearance - sqrt feature crosses power index: it can be seen  
in the example below.  
>>  
>> p=plot([0,1],[0,1],name='best fit function  $2.35w\sqrt{N^2 + EF/w}$ ' )  
>> legend=legend(target=[p],pos=[0.8,0.3])  
>>  
>> Anyone knows how to fix that?  
>> I am using idl8.3 in this case.

Another solution might be to write:  $2.35w(N^2 + EF/w)^{1/2}$   
alx.

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