Subject: Complicated Latex typesetting for IDL ledgend
Posted by jimbo on Tue, 23 Nov 2010 13:44:58 GMT
View Forum Message <> Reply to Message

I would like to include the following LaTex command in the legend of a plot in IDL...

$ \widetilde{ B^{ijk}_{0} } $

however TeXtoIDL("...") and IDL 8's internal '$...$' system does not support the \widetilde{} command. Is there a way of including this symbol into eg the TeXtoIDL lookup table, or of including the whole character in another way (maybe I crop it as an image and manually place it into the legend using TV - last resort)?

I assume this sort of issue has come up before, but have not found an obvious fix in this case.

I have tried code such as...

B_tilde == '!3 !s B^{ijk}_{0} !r !u ~ !n'

which gives a B with a tilde above, however the tilde is not streched to cover the superscript as well, and is not positioned high enough to even sit well above the B let alone the whole symbol. I should add that this is postscript output to a .esp plot

Any ideas would be great

Thanks

Subject: Re: Complicated Latex typesetting for IDL ledgend
Posted by pgrigis on Tue, 23 Nov 2010 16:40:14 GMT
View Forum Message <> Reply to Message

To get an idea of the result,
this is a plot I produced when I was testing
psfrag to decide if it was worth it.

http://hea-www.cfa.harvard.edu/~pgrigis/fig.ps

Ciao,
Paolo

On Nov 23, 11:21 am, jimbo <james.a.gord...@googlemail.com> wrote:
> On Nov 23, 3:48 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

>
>
>
>> On Nov 23, 1:27 pm, Paolo <pgri...@gmail.com> wrote:
>
>>> If you want anything more then basic stuff, do use psfrag.
>
>>> That will allow you to put any LaTeX formula into your plot.
>
>>> IDL own symbols are very limited.
>
>> I have for some time intended to make something similar to what
>> mathurl (http://mathurl.com/) does. But so far never had the time to
>> do it. The hard part would be handle the external dependency on LaTeX
>> in a reasonably tolerable and platform-independent way. Maybe with
>> JLaTeXMath through an IDL_Java bridge.
>
>> Ideally the LaTeX output should be vectorial, not bitmap. But drawing
>> the vectors might also be tricky, depending on how they are provided.
>
> Thank you,
>
> PSFrag looks interesting - not a package I have come across, but seems
> to do the job. I think you are on to something with a mathurl type
> system - I would certainly rather write the whole string in Latex
> format and just include the output image as the title say, so the
> spacing etc. is correct. As you say however, scaling bitmaps is
> obviously less than ideal unless you can tie the latex fontsize to the
> charsize tag in IDL?
>
> Again, thanks for the prompt replies
>
> J
