

In beta 2011.11.25 Hans has kindly fixed most of the bugs identified in `\unit` and only a few problems remain.

Litre and metre are still a problem (but can be fixed using `\registerunit`):

<code>\unit</code> argument	desired	<code>\unit</code> output
<code>1 litre / second</code>	1 l/s	1 l
<code>1 metre / second</code>	1 m/s	1 m
<code>1 m/s</code>	1 m/s	1 m/s
<code>1m/s</code>	1 m/s	1 m/s

Temperature symbols should be “°C” and “°” (Unicode 2103 and 2109; the latter for Fahrenheit does not seem to print). I note Hans has marked this as *todo* in `phys-dim.lua`; hopefully that will fix the examples below. (Yes, strictly the last two should be W/m·K but the Celsius unit is equivalent and valid in this context).

<code>\unit</code> argument	desired	<code>\unit</code> output
<code>0 celsius</code>	0 °C	0 C
<code>32 fahrenheit</code>	32 °F	32 F
<code>0.123 ohm per celsius</code>	0.123 Ω/°C	0.123 Ω/C
<code>5 watt per meter celsius</code>	5 W/m·°C	5 W/m·C
<code>5 watt per meter degree celsius</code>	5 W/m·°C	5 W/m°C

I missed a number of SI units in `phys-unit.lua`: I will send Hans a full list, but they include radian and steradian, symbols rad and sr. (`phys-unit.lua` does have ‘sterant’ which I believe to be a typo):

<code>\unit</code> argument	desired	<code>\unit</code> output
<code>\$2\pi\$ radian</code>	2π rad	2π radian
<code>\$4\pi\$ steradian</code>	4π sr	4π steradian
<code>100 lumen</code>	100 lm	100 l·μm
<code>23 centi stokes</code>	23 cSt	23 cs·t
<code>0.123 neper</code>	0.123 Np	0.123 N

Note also that a leading space has crept in in the radian and steradian examples, presumably caused by my use of math mode; but radian and steradian quantities are often expressions involving π.