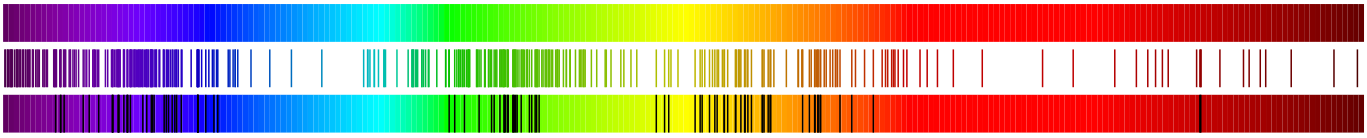

pst-spectra
v 0.91

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Abstract

This extension, based on a NASA lines database, allows you to draw continuum, emission and absorption spectra. A Total of 16 880 visible lines from 99 elements can be displayed.

1 Options

Only one command exists, \psspectrum, with the following options.

Option	Type	Default	Description
begin	number	380	First wavelength, in nanometer
end	number	780	Last wavelength, in nanometer
gamma	number	0.8	Color correction
brightness	number	1	Brightness parameter of the CMYK color
numlines	number	250	Number of lines in a spectrum
lines	numbers		List of wavelengths, in nanometer
element	text		List of chemical elements or cations
emission	boolean	true	Emission spectrum
absorption	boolean	false	Absorption spectrum
lwidth	length	0.2	Width of each line (in PSTricks unit, not nanometer)
lmin	number	0	Between 0 and 1, to fix the intensity threshold.
axe	boolean	false	Draw an axis with a nanometric scale
Dl	number	20	Nanometric length between two tics of the scale
axecolor	color	black	Color of the axis
axewidth	number	0.05	Width of the axis
wlangle	number	0	Angle, in degrees, of the wavelength numbers
wlcmd	commands	{\small\sffamily\bfseries}	Commands to be applied to the wavelength numbers

2 Examples

To get the headline

```
\psspectrum
\psspectrum[element=Fe]
\psspectrum[absorption,element=Fe2+]
```

Please have a look to the French documentation to experiment more complex examples.