

Hidden T_EX

Headers

pdf

Pensieve header: The PBW multiplication tensor for $\$gl_{\{n,\epsilon\}}\$$ using the nilpotent-only $\$lambda\$$ -tangent formalism. Some material from pensieve://Projects/glneps and from pensieve://Projects/UEA.

pdf

```
In[ ]:= SetDirectory@"C:\\drorbn\\AcademicPensieve\\Projects\\SolvablePBW";
<< KnotTheory`
```

pdf

Loading KnotTheory` version of October 29, 2024, 10:29:52.1301.
Read more at <http://katlas.org/wiki/KnotTheory>.

nb2tex

```
In[ ]:= Get["../nb2tex/nb2tex.m"];
nb2tex["Engine", PDFWidth -> 7.5, PDFFolder -> "Snips"];
texfile = OpenAppend["Engine.tex"];
WriteLine[texfile, "\\end{document}"]; Close[texfile];
Run@
  "\"C:\\Users\\drorb\\AppData\\Local\\Programs\\MiKTeX\\miktex\\bin\\x64\\pdflatex.exe\"
  Engine.tex";
```

pdf

Conventions on August 18

pdf

Only one algebra (not necessarily Lie!) at a time, and it comes with a list of (Latin) generators and their Greek duals, and a default PBW order. If some Verma module is needed, it is added once and by means of extra generators.

Generators are of the form $x_{\alpha,\beta}[i]$, $a_\alpha[i]$, etc., where i is the tensor factor.

In the commutative context we have $\mathbb{E}_{i,j \rightarrow k}[L_0, L_1, \dots]$, where L_p is the coefficient of ϵ^p , and (maybe) $\mathbb{Q}_{i,j \rightarrow k}[F]$.

In the non-commutative context, generators do not carry a “tensor factor” designations. Instead we consider expressions like $U_i[x, y, y, x]$.

Issues: Upper and lower?