

Pensieve header: Full testing of all functions.

Startup

```
In[ ]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\SL2Portfolio2"];
<< KnotTheory`;
<< "../Profile/Profile.m";
<< "Engine-With-w.m";
<< "Objects-With-w.m";
<< "KT.m";
BeginProfile[];
PopupWindow[Button["Show Profile Monitor"],
Dynamic[PrintProfile[], UpdateInterval -> 3, TrackedSymbols -> {}]]
```

... **ParentDirectory**: Argument File should be a positive machine-size integer, a nonempty string, or a File specification.

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... **ToFileName**: String or list of strings expected at position 1 in ToFileName[{File, WikiLink, mathematica}].

... **ToFileName**: String or list of strings expected at position 1 in ToFileName[{File, QuantumGroups}].

Loading KnotTheory` version of January 20, 2015, 10:42:19.1122.

Read more at <http://katlas.org/wiki/KnotTheory>.

This is Profile.m of <http://www.drorbn.net/AcademicPensieve/Projects/Profile/>.

This version: June 2018. Original version: July 1994.

» **Warning: On Sep 4 2019 I swapped the operations ϵ and η . Some incompatibilities may arise in older notebooks.**

Out[]:= 

```
In[ ]:= $k = 0; ħ = γ = 1;
```

Utilities

```
In[ ]:= HL[ε_] := Style[ε, Background -> If[TrueQ@ε, Green, Red]];
```

Testing

```
In[ ]:= a2wi // w2ai
```

» dah

... **Power**: Infinite expression $\frac{1}{0}$ encountered.

... **Infinity**: Indeterminate expression $e^{\text{ComplexInfinity}}$ encountered.

» EQ\$6352[0, 0, 0, 0]

» $E\left[\frac{(1 - T_i) \alpha_i}{-1 + T_n\$6351[i]} + \frac{a_i (-1 + T_i) \alpha_i}{-1 + T_n\$6351[i]} + t_i \tau_i, \text{Indeterminate}, 1\right]$

... Inverse: Input matrix contains an indeterminate entry.

Out[*]= $E_{\{i\} \rightarrow \{i\}}\left[\frac{(1 - T_i) \alpha_i}{-1 + T_n\$6351[i]} + \frac{a_i (-1 + T_i) \alpha_i}{-1 + T_n\$6351[i]} + t_i \tau_i, \text{Indeterminate},\right.$

$\left.\text{Det}[\text{Inverse}[\{\{\text{Indeterminate}, \text{Indeterminate}\}, \{\text{Indeterminate}, \text{Indeterminate}\}\}]]\right]$

In[*]= $E_{\{i\} \rightarrow \{i\}}[0, 0, a_i] // a2w_i$

Out[*]= $E_{\{i\} \rightarrow \{i\}}\left[0, 0, \frac{w_i}{-1 + T_i} + x_i y_i\right]$

In[*]= $E_{\{i\} \rightarrow \{i\}}[0, 0, w_i] // w2a_i$

Out[*]= $E_{\{i\} \rightarrow \{i\}}[0, 0, 1 + a_i (-1 + T_i) - T_i + x_i y_i]$

In[*]= $(E_{\{i\} \rightarrow \{i\}}[0, 0, w_i] // w2a_i) // t2b_i // dm_{i,j \rightarrow k}$

Out[*]= $E_{\{j\} \rightarrow \{k\}}[a_k \alpha_j + b_k \beta_j, y_k \eta_j + x_k \xi_j, \left(1 + a_k (-1 + B_k) - B_k + \frac{x_k y_k}{\mathcal{A}_j} + (2 - 2 B_k) y_k \eta_j\right) + 0[\epsilon]^1]$

In[*]= $(E_{\{i\} \rightarrow \{i\}}[0, 0, w_i] // w2a_i) // t2b_i // dm_{j,i \rightarrow k}$

Out[*]= $E_{\{j\} \rightarrow \{k\}}[a_k \alpha_j + b_k \beta_j, y_k \eta_j + x_k \xi_j, \left(1 + a_k (-1 + B_k) - B_k + \frac{x_k y_k}{\mathcal{A}_j} + (2 - 2 B_k) x_k \xi_j\right) + 0[\epsilon]^1]$