Pensieve header: Some broken doubles.

In[ ]:= **SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects/SL2Invariant"];**
<< SL2Invariant.m
$k = 1;

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

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

The original double:

In[ ]:= $\left(\mathbb{E}[\beta_i\, b_i\, +\, \alpha_j\, a_j,\, \eta_i\, y_i + \xi_j\, x_j,\, 1]\,\left(a\Delta_{i\to 1,2} \sim B_2 \sim a\Delta_{2\to 2,3} \sim B_3 \sim \overline{aS}_3\right)\,\left(b\Delta_{j\to -1,-2} \sim B_{-2} \sim b\Delta_{-2\to -2,-3}\right)\right) \sim$
$B_{-3,-2,-1,1,2,3,i,j} \sim \left(P_{-1,3}\, P_{-3,1}\, am_{2,j\to k}\, bm_{i,-2\to k}\right)$

Out[ ]= $\mathbb{E}\Big[a_k\, \alpha_i + a_k\, \alpha_j + b_k\, \beta_i + b_k\, \beta_j,\, \dfrac{1}{\hbar\, \mathcal{A}_i\, \mathcal{A}_j}$

$(\hbar\, y_k\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_i + \hbar\, y_k\, \mathcal{A}_j\, \eta_j + \hbar\, x_k\, \mathcal{A}_i\, \xi_i + \mathcal{A}_i\, \mathcal{A}_j\, \eta_j\, \xi_i - B_k\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j\, \xi_i + \hbar\, x_k\, \mathcal{A}_i\, \mathcal{A}_j\, \xi_j)\,,$

$1 + \dfrac{1}{4\, \hbar\, \mathcal{A}_i\, \mathcal{A}_j}\,\big(-4\, \hbar\, y_k\, \mathcal{A}_j\, \beta_i\, \eta_j - 4\, \hbar\, x_k\, \mathcal{A}_i\, \beta_j\, \xi_i + 4\, \gamma\, \hbar^2\, x_k\, y_k\, \eta_j\, \xi_i +$

$4\, \hbar\, a_k\, B_k\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j\, \xi_i + 2\, \gamma\, \hbar\, y_k\, \mathcal{A}_j\, \eta_j^2\, \xi_i - 6\, \gamma\, \hbar\, B_k\, y_k\, \mathcal{A}_j\, \eta_j^2\, \xi_i + 2\, \gamma\, \hbar\, x_k\, \mathcal{A}_i\, \eta_j\, \xi_i^2 -$

$6\, \gamma\, \hbar\, B_k\, x_k\, \mathcal{A}_i\, \eta_j\, \xi_i^2 + \gamma\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j^2\, \xi_i^2 - 4\, \gamma\, B_k\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j^2\, \xi_i^2 + 3\, \gamma\, B_k^2\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j^2\, \xi_i^2\big)\, \epsilon + O[\epsilon]^2\Big]$

In[ ]:= $\left(\mathbb{E}[\beta_i\, b_i\, +\, \alpha_j\, a_j,\, \eta_i\, y_i + \xi_j\, x_j,\, 1]\,\left(a\Delta_{i\to 1,2} \sim B_2 \sim a\Delta_{2\to 3,2} \sim B_3 \sim \overline{aS}_3\right)\,\left(b\Delta_{j\to -1,-2} \sim B_{-2} \sim b\Delta_{-2\to -2,-3}\right)\right) \sim$
$B_{-3,-2,-1,1,2,3,i,j} \sim \left(P_{-1,3}\, P_{-3,1}\, am_{2,j\to k}\, bm_{i,-2\to k}\right)$

Out[ ]= $\mathbb{E}\Big[a_k\, \alpha_i + a_k\, \alpha_j + b_k\, \beta_i + b_k\, \beta_j,\, \dfrac{1}{\hbar\, \mathcal{A}_i\, \mathcal{A}_j}$

$(\hbar\, y_k\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_i + \hbar\, y_k\, \mathcal{A}_j\, \eta_j + \hbar\, x_k\, \mathcal{A}_i\, \xi_i + \mathcal{A}_i\, \mathcal{A}_j\, \eta_j\, \xi_i - B_k\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j\, \xi_i + \hbar\, x_k\, \mathcal{A}_i\, \mathcal{A}_j\, \xi_j)\,,\, 1 +$

$\dfrac{1}{4\, \hbar\, \mathcal{A}_i\, \mathcal{A}_j}\,\big(-4\, \hbar\, y_k\, \mathcal{A}_j\, \beta_i\, \eta_j + 4\, \gamma\, \hbar^2\, x_k\, y_k\, \eta_j\, \xi_i + 2\, \gamma\, \hbar\, y_k\, \mathcal{A}_j\, \eta_j^2\, \xi_i - 6\, \gamma\, \hbar\, B_k\, y_k\, \mathcal{A}_j\, \eta_j^2\, \xi_i + 2\, \gamma\, \hbar\, x_k\, \mathcal{A}_i\, \eta_j\, \xi_i^2 -$

$2\, \gamma\, \hbar\, B_k\, x_k\, \mathcal{A}_i\, \eta_j\, \xi_i^2 + \gamma\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j^2\, \xi_i^2 - 4\, \gamma\, B_k\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j^2\, \xi_i^2 + 3\, \gamma\, B_k^2\, \mathcal{A}_i\, \mathcal{A}_j\, \eta_j^2\, \xi_i^2\big)\, \epsilon + O[\epsilon]^2\Big]$