

Pensieve header: Demo of NOE-0 and NOE-1t for LesDiablerets-1608. Follows pensieve://Projects/OneCo-1606/.

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\Talks\\LesDiablerets-1608"];
```

NOE-0

OR

$$R_{\theta, i, j}^+ := \mathbb{E}[b_i c_j + b_i^{-1} (e^{b_i} - 1) u_i w_j]; \quad R_{\theta, i, j}^- := \mathbb{E}[-b_i c_j + b_i^{-1} (e^{-b_i} - 1) u_i w_j];$$

Util

```
CF[\omega_. \mathbb{E}[Q_]] := Simplify[\omega] \mathbb{E}[Simplify[Q]];
\mathbb{E} /: \mathbb{E}[Q1_] \mathbb{E}[Q2_] := CF@\mathbb{E}[Q1 + Q2];
\omega1_. \mathbb{E}[Q1_] \equiv \omega2_. \mathbb{E}[Q2_] := Simplify[\omega1 == \omega2 \wedge Q1 == Q2];
```

ONO

```
N_{u_i c_j \rightarrow k}[\omega_. \mathbb{E}[Q_]] := CF[
  \omega \mathbb{E}[e^{-\gamma} \beta u_k + \gamma c_k + (Q /. \{c_j \rightarrow 0\})] /. {\gamma \rightarrow \partial_{c_j} Q, \beta \rightarrow \partial_{u_i} Q}];
N_{w_i c_j \rightarrow k}[\omega_. \mathbb{E}[Q_]] := CF[
  \omega \mathbb{E}[e^\gamma \alpha w_k + \gamma c_k + (Q /. \{c_j \rightarrow 0\})] /. {\gamma \rightarrow \partial_{c_j} Q, \alpha \rightarrow \partial_{w_i} Q}];
N_{w_i u_j \rightarrow k}[\omega_. \mathbb{E}[Q_]] := CF[
  \nu \omega \mathbb{E}[-b_k \nu \alpha \beta + \nu \beta u_k + \nu \delta u_k w_k + \nu \alpha w_k + (Q /. \{w_i \rightarrow 0\})] /. \nu \rightarrow (1 + b_k \delta)^{-1} /.
  {\alpha \rightarrow \partial_{w_i} Q /. u_j \rightarrow 0, \beta \rightarrow \partial_{u_j} Q /. w_i \rightarrow 0, \delta \rightarrow \partial_{w_i, u_j} Q}];
```

0m

```
m_{i,j \rightarrow k}[\omega_. \mathbb{E}[Q_]] := CF[Module[{x},
  (\omega \mathbb{E}[Q] /. {b_{i|j} \rightarrow b_k // N_{w_i c_j \rightarrow x} // N_{u_i c_x \rightarrow x} // N_{w_x u_j \rightarrow x}) /. {c_i \rightarrow c_k, w_j \rightarrow w_k, y_{-x} \rightarrow y_k}]]
```

T00

$$T_{\theta, \theta} = R_{\theta, 5, 1}^+ R_{\theta, 2, 4}^+ R_{\theta, 3, 6}^-$$

T00

$$\mathbb{E}\left[b_5 c_1 + b_2 c_4 - b_3 c_6 + \frac{(-1 + e^{b_5}) u_5 w_1}{b_5} + \frac{(-1 + e^{b_2}) u_2 w_4}{b_2} + \frac{(-1 + e^{-b_3}) u_3 w_6}{b_3}\right]$$

T01

$$T_{\theta, 1} = T_{\theta, \theta} // N_{u_3 c_4 \rightarrow 4}$$

T01

$$\mathbb{E}\left[b_5 c_1 + b_2 c_4 - b_3 c_6 + \frac{(-1 + e^{b_5}) u_5 w_1}{b_5} + \frac{(-1 + e^{b_2}) u_2 w_4}{b_2} + \frac{e^{-b_2} (-1 + e^{-b_3}) u_4 w_6}{b_3}\right]$$

T02

$$T_{\theta, 2} = T_{\theta, 1} // N_{w_4 u_5 \rightarrow 4}$$

T02

$$\mathbb{E}\left[b_5 c_1 + b_2 c_4 + \frac{(-1 + e^{b_5}) (-(-1 + e^{b_2}) b_4 u_2 + b_2 u_4) w_1}{b_2 b_5} + \frac{(-1 + e^{b_2}) u_2 w_4}{b_2} - \frac{b_3^2 c_6 + e^{-b_2-b_3} (-1 + e^{b_3}) u_4 w_6}{b_3}\right]$$

T03

$$\begin{aligned}
 & \frac{1}{1 - \frac{(-1 + e^{b_2}) (-1 + e^{b_5}) b_1 b_4}{b_2 b_5}} \mathbb{E}\left[\frac{1}{b_3 \left((-1 + e^{b_2}) (-1 + e^{b_5}) b_1 b_4 - b_2 b_5\right)}\right. \\
 & \left(b_3 b_5 \left((-1 + e^{b_2}) (-1 + e^{b_5}) b_1 b_4 - b_2 b_5\right) c_1 + b_2 b_3 \left((-1 + e^{b_2}) (-1 + e^{b_5}) b_1 b_4 - b_2 b_5\right) c_4 + \right. \\
 & \left.(-1 + e^{b_2}) (-1 + e^{b_5}) b_3 b_4 u_1 w_1 - (-1 + e^{b_5}) b_2 b_3 u_4 w_1 - (-1 + e^{b_2}) b_3 b_5 u_1 w_4 + \right. \\
 & \left.(-1 + e^{b_2}) (-1 + e^{b_5}) b_1 b_3 u_4 w_4 - \left((-1 + e^{b_2}) (-1 + e^{b_5}) b_1 b_4 - b_2 b_5\right) \left(b_3^2 c_6 + e^{-b_2-b_3} (-1 + e^{b_3}) u_4 w_6\right)\right]
 \end{aligned}$$

T04

$$\mathbf{T}_{\theta,\theta} // \mathbf{m}_{1,2 \rightarrow 1} // \mathbf{m}_{3,4 \rightarrow 3} // \mathbf{m}_{3,5 \rightarrow 3} // \mathbf{m}_{3,6 \rightarrow 3}$$

T04

$$\mathbb{E} \left[b_3 c_1 + b_1 c_3 - b_3 c_3 + \frac{(-1 + e^{b_1}) (-1 + e^{b_3})}{(-e^{b_1} - e^{b_3} + e^{b_1+b_3})} u_1 w_1 - \frac{e^{-b_3} (-1 + e^{b_1}) (b_3 u_1 - e^{b_3} (-1 + e^{b_3}) b_1 u_3)}{(-e^{b_1} - e^{b_3} + e^{b_1+b_3}) b_1 b_3} + \right. \\ \left. \frac{e^{-b_1} (-1 + e^{b_3}) u_3 (-e^{b_1+b_3} w_1 + (e^{b_1} + e^{b_3} - e^{b_1+b_3}) w_3)}{(-e^{b_1} - e^{b_3} + e^{b_1+b_3}) b_3} \right] / (1 - (-1 + e^{b_1}) (-1 + e^{b_3}))$$

0Q0

$$\mathbf{Q}\theta = \mathbb{E} [\text{Sum}[\mathbf{f}_i \mathbf{c}_i, \{i, 3\}] + \text{Sum}[\mathbf{f}_{i,j} \mathbf{u}_i \mathbf{w}_j, \{i, 3\}, \{j, 3\}]]$$

0Q0

$$\mathbb{E} [c_1 f_1 + c_2 f_2 + c_3 f_3 + u_1 w_1 f_{1,1} + u_1 w_2 f_{1,2} + u_1 w_3 f_{1,3} + u_2 w_1 f_{2,1} + u_2 w_2 f_{2,2} + u_2 w_3 f_{2,3} + u_3 w_1 f_{3,1} + u_3 w_2 f_{3,2} + u_3 w_3 f_{3,3}]$$

0NODemo

$$\mathbf{Q}\theta // \mathbf{N}_{w_1 u_2 \rightarrow 3}$$

0NODemo

$$\frac{1}{1 + b_3 f_{2,1}} \mathbb{E} [c_1 f_1 + c_2 f_2 + c_3 f_3 + u_1 w_2 f_{1,2} + u_1 w_3 f_{1,3} + \frac{u_3 w_3 f_{2,1}}{1 + b_3 f_{2,1}} + \frac{u_3 (w_2 f_{2,2} + w_3 f_{2,3})}{1 + b_3 f_{2,1}} + \\ \frac{w_3 (u_1 f_{1,1} + u_3 f_{3,1})}{1 + b_3 f_{2,1}} - \frac{b_3 (w_2 f_{2,2} + w_3 f_{2,3}) (u_1 f_{1,1} + u_3 f_{3,1})}{1 + b_3 f_{2,1}} + u_3 w_2 f_{3,2} + u_3 w_3 f_{3,3}]$$

0mDemo

$$\mathbf{Q}\theta // \mathbf{m}_{1,2 \rightarrow 1}$$

0mDemo

$$\frac{1}{1 + e^{f_2} b_1 f_{2,1}} \mathbb{E} [c_1 f_1 + c_1 f_2 + c_3 f_3 + e^{-f_2} u_1 (w_1 f_{1,2} + w_3 f_{1,3}) + \frac{e^{f_2} u_1 w_1 f_{2,1}}{1 + e^{f_2} b_1 f_{2,1}} + \frac{u_1 (w_1 f_{2,2} + w_3 f_{2,3})}{1 + e^{f_2} b_1 f_{2,1}} + \\ \frac{w_1 (u_1 f_{1,1} + e^{f_2} u_3 f_{3,1})}{1 + e^{f_2} b_1 f_{2,1}} - \frac{b_1 (w_1 f_{2,2} + w_3 f_{2,3}) (u_1 f_{1,1} + e^{f_2} u_3 f_{3,1})}{1 + e^{f_2} b_1 f_{2,1}} + u_3 w_1 f_{3,2} + u_3 w_3 f_{3,3}]$$

0MetaAssoc

$$(\mathbf{Q}\theta // \mathbf{m}_{1,2 \rightarrow 1} // \mathbf{m}_{1,3 \rightarrow 1}) \equiv (\mathbf{Q}\theta // \mathbf{m}_{2,3 \rightarrow 2} // \mathbf{m}_{1,2 \rightarrow 1})$$

0MetaAssoc

True

0R3Left

$$\mathbf{t1} = \mathbf{R}_{\theta,1,2}^+ \mathbf{R}_{\theta,3,4}^+ \mathbf{R}_{\theta,5,6}^+ // \mathbf{m}_{3,5 \rightarrow x} // \mathbf{m}_{1,6 \rightarrow y} // \mathbf{m}_{2,4 \rightarrow z}$$

0R3Left

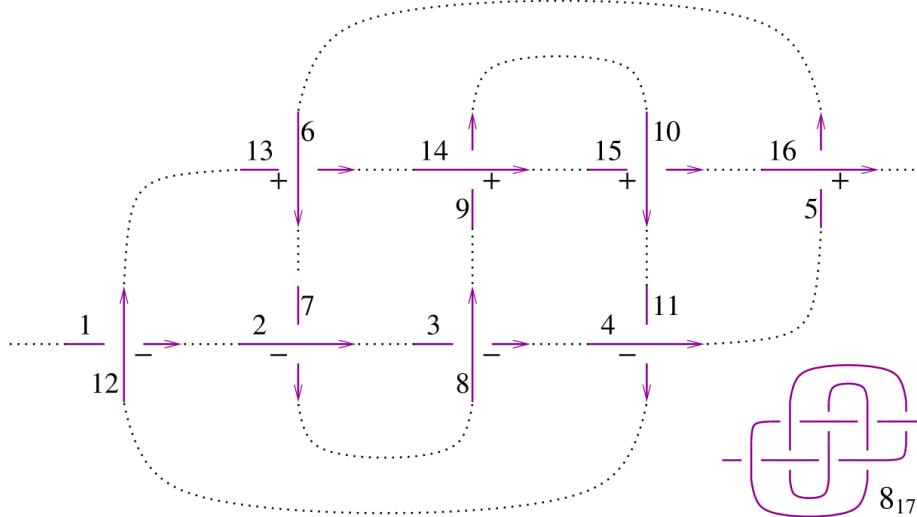
$$\mathbb{E} [b_x (c_y + c_z) + \frac{(-1 + e^{b_x}) u_x (w_y + w_z)}{b_x} + \frac{b_y^2 c_z + (-1 + e^{b_y}) u_y w_z}{b_y}]$$

0R3

$$\mathbf{t1} \equiv (\mathbf{R}_{\theta,1,2}^+ \mathbf{R}_{\theta,3,4}^+ \mathbf{R}_{\theta,5,6}^+ // \mathbf{m}_{1,3 \rightarrow x} // \mathbf{m}_{2,5 \rightarrow y} // \mathbf{m}_{4,6 \rightarrow z})$$

0R3

True



0817

```
z1 = R0,12,1 R0,2,7 R0,8,3 R0,4,11 R0,16,5 R0,6,13 R0,14,9 R0,10,15;
Do[z1 = (z1 // m1,n1) /. b- → b, {n, 2, 16}];
{CF@z1, KnotData[{8, 17}, "AlexanderPolynomial"] [t]} }
```

0817

$$\left\{ -\frac{e^{3b} \mathbb{E}[0]}{1 - 4 e^b + 8 e^{2b} - 11 e^{3b} + 8 e^{4b} - 4 e^{5b} + e^{6b}}, \frac{1}{t^3} + \frac{4}{t^2} - \frac{8}{t} - 8t + 4t^2 - t^3 \right\}$$

NOE-It

Logos

```
Δ[k] := (1 - tk) (α2 β2 + 4 α β δ μ + 2 δ2 μ2) / 2 + 2 μ2 (α β + δ μ) ck - β (2 μ - 1) (α β + 2 δ μ) uk +
2 β δ μ2 ck uk - β2 δ (3 μ - 1) uk2 / 2 + α (α β + 2 δ μ) wk + 2 α δ μ2 ck wk - 2 (tk - 1) δ2 (α β + δ μ) uk wk +
2 δ2 μ2 ck uk wk - β δ2 (2 μ - 1) uk2 wk + α2 δ (1 + μ) wk2 / 2 + α δ2 uk wk2 - (tk - 1) δ4 uk2 wk2 / 2;
```

1DP

```
DPx_→Dα,y_→Dβ[P_][f_] := (* means P[∂α, ∂β][f] *)
Total[CoefficientRules[P, {x, y}] /. ({m_, n_} → c_) → c D[f, {α, m}, {β, n}]]
```

1Util

```
CF[E[w_, L_, Q_, P_]] := Expand /@ Together /@
E[w /. bL → Log[tL], L, Q /. bL → Log[tL], P /. bL → Log[tL]];
E /: E[w1_, L1_, Q1_, P1_] E[w2_, L2_, Q2_, P2_] := CF@E[w1 w2, L1 + L2, w2 Q1 + w1 Q2, w24 P1 + w14 P2];
```

1NOc

```
Nui cj→k[E[w_, L_, Q_, P_]] := With[{q = e-γ β uk + γ ck}, CF[
E[w, γ ck + (L /. cj → 0), w e-γ β uk + (Q /. ui → 0), e-q DPcj→Dγ, ui→Dβ[P][eq]] /. {γ → ∂cjL, β → w-1 ∂uiQ}]];
Nwi cj→k[E[w_, L_, Q_, P_]] := With[{q = eγ α wk + γ ck}, CF[
E[w, γ ck + (L /. cj → 0), w eγ α wk + (Q /. wi → 0), e-q DPcj→Dγ, wi→Dα[P][eq]] /. {γ → ∂cjL, α → w-1 ∂wiQ}]];
```

1NOuw

```
Nwi uj→k[E[w_, L_, Q_, P_]] := With[{q = (1 - tk) μ-1 α β + μ-1 β uk + μ-1 δ uk wk + μ-1 α wk}, CF[
E[μ w, L, μ w q + μ (Q /. wi | uj → 0), μ4 e-q DPwi→Dα, uj→Dβ[P][eq] + w4 Δ[k]] /. μ → 1 + (tk - 1) δ /.
{α → w-1 (∂wiQ /. uj → 0), β → w-1 (∂ujQ /. wi → 0), δ → w-1 ∂wi, ujQ}]];
```

1m

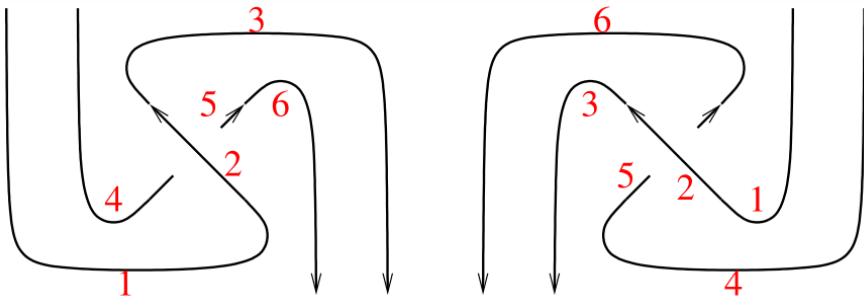
```
mi,j→k[Z_] := Module[{x, y, z},
Z // Nwi cj→x // Nwi uj→y // ReplaceAll[{cx|y → cx, wj → wy}] // Nui cx→x // ReplaceAll[zi|j|x|y → zk] // CF]
```

1Gens

```
Ri,j+ := E[1, bi cj, ui wj, -ci (ti - 1)2 / 2 - ci2 (ti - 1)2 / 2 + ci cj (tj2 - ti - 2) / 2 - cj ui wi / 2 + ci (1 - ti) ui wi - ui2 wi2 / 2 + ui wj + cj ti ui wj / 2 + ci (ti - 2) ti ui wj + ci (1 + tj) uj wj / 2 + (ti - 1) ui2 wi wj - (ti - 2) ti ui2 wj2 / 2];
Ri,j- := E[1, -bi cj, -ti-1 ui wj, ci (ti - 1)2 / 2 + ci2 (ti - 1)2 / 2 + ci cj (2 + ti - tj2) / 2 + cj ui wi / 2 +
ci (ti - 1) ui wi + ui2 wi2 / 2 + (1 - ti-1) ui wj / 2 + ci (2 ti - 5 + 3 ti-1) ui wj / 2 + cj (ti-1 + 1 - ti-1 tj2) ui wj / 2 -
ci (tj + 1) uj wj / 2 + (2 - 3 ti-1) ui2 wi wj / 2 + (1 + 2 ti-2 - 3 ti-1) ui2 wj2 / 2 - ti-1 (1 + tj) ui uj wj2 / 2];
uri_ := E[ti-1/4, 0, 0, ci ti / 4 + ui wi / 8];
nri_ := E[ti1/4, 0, 0, -ci ti3 / 4 - ti2 ui wi / 8];
uli_ := E[ti1/4, 0, 0, ci ti (4 + ti) / 4 - ti2 ui wi / 8];
nli_ := E[ti-1/4, 0, 0, -ci (1 + 4 ti-1) / 4 + ui wi / 8];
```

```
Series[Last@Ri,2+ /. {ui → ħ ui, ti → eħ bi}, {ħ, 0, 1}]
```

$$-c_1 c_2 + \left(-\frac{1}{2} b_1 c_1 c_2 + b_2 c_1 c_2 - \frac{1}{2} c_2 u_1 w_1 + u_1 w_2 - c_1 u_1 w_2 + \frac{1}{2} c_2 u_1 w_2 + c_1 u_2 w_2 \right) \hbar + O[\hbar]^2$$



1SwirlLeft

 $t2 = \text{ur}_1 R_{2,5}^- \text{nr}_3 \text{ur}_4 \text{nr}_6 // \text{m}_{1,2 \rightarrow 1} // \text{m}_{1,3 \rightarrow 1} // \text{m}_{4,5 \rightarrow 4} // \text{m}_{4,6 \rightarrow 4}$

1SwirlLeft

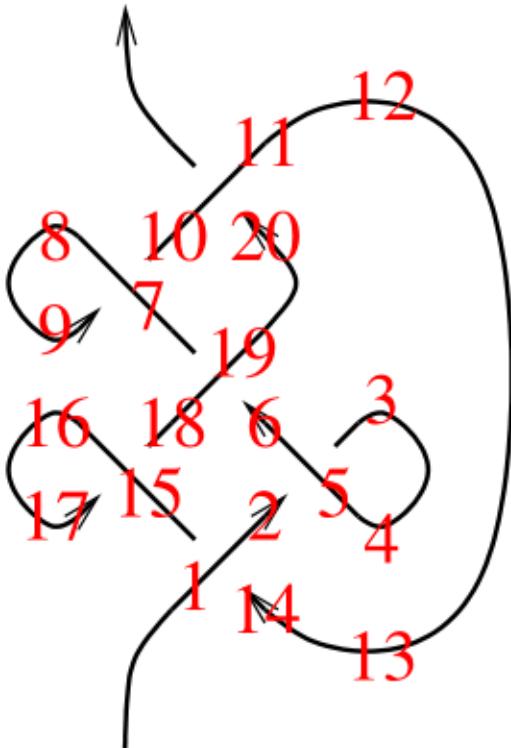
$$\mathbb{E} \left[1, -b_1 c_4, -\frac{u_1 w_4}{t_1}, \frac{c_1}{2} + \frac{c_1^2}{2} + c_1 c_4 - c_1 t_1 - c_1^2 t_1 + \frac{1}{2} c_1 c_4 t_1 + \frac{1}{2} c_1 t_1^2 + \frac{1}{2} c_1^2 t_1^2 - \frac{1}{2} c_1 c_4 t_4^2 - c_1 u_1 w_1 + \frac{1}{2} c_4 u_1 w_1 + c_1 t_1 u_1 w_1 + \frac{1}{2} u_1^2 w_1^2 + \frac{3 u_1 w_4}{8} - \frac{5}{2} c_1 u_1 w_4 + \frac{1}{2} c_4 u_1 w_4 - \frac{u_1 w_4}{2 t_1} + \frac{3 c_1 u_1 w_4}{2 t_1} + \frac{c_4 u_1 w_4}{2 t_1} - \frac{1}{8} t_1 u_1 w_4 + c_1 t_1 u_1 w_4 + \frac{t_4 u_1 w_4}{8 t_1} + \frac{t_4^2 u_1 w_4}{8 t_1} - \frac{c_4 t_4^2 u_1 w_4}{2 t_1} - \frac{1}{2} c_1 u_4 w_4 - \frac{1}{2} c_1 t_4 u_4 w_4 + u_1^2 w_1 w_4 - \frac{3 u_1^2 w_1 w_4}{2 t_1} + \frac{1}{2} u_1^2 w_4^2 + \frac{u_1^2 w_4}{t_1^2} - \frac{3 u_1^2 w_4^2}{2 t_1} - \frac{u_1 u_4 w_4^2}{2 t_1} - \frac{t_4 u_1 u_4 w_4^2}{2 t_1} \right]$$

1Swirl

 $t2 = (\text{ul}_1 R_{2,5}^- \text{nl}_3 \text{ul}_4 \text{nl}_6 // \text{m}_{1,2 \rightarrow 1} // \text{m}_{1,3 \rightarrow 1} // \text{m}_{4,5 \rightarrow 4} // \text{m}_{4,6 \rightarrow 4})$

1Swirl

True



131

 $z2 = R_{1,14}^+ R_{5,2}^- \text{nr}_3 \text{ul}_4 R_{19,6}^+ R_{7,10}^- \text{nl}_8 \text{ur}_9 R_{11,20}^+ \text{nr}_{12} \text{ul}_{13} R_{15,18}^- \text{nl}_{16} \text{ur}_{17};$
 $(\text{Do}[z2 = z2 // \text{m}_{1,k \rightarrow 1}, \{k, 2, 20\}]; z2 = z2 /. a_{-1} \Rightarrow a)$

131

$$\mathbb{E} \left[-1 + \frac{1}{t} + t, 0, 0, -16 + \frac{9 c}{2} - \frac{2 c}{t^4} + \frac{1}{t^3} + \frac{11 c}{2 t^3} - \frac{4}{t^2} - \frac{8 c}{t^2} + \frac{10}{t} + \frac{4 c}{t} + 18 t - 10 c t - 14 t^2 + 8 c t^2 + 7 t^3 - \frac{3 c t^3}{2} - 2 t^4 - 2 c t^4 + 2 c t^5 - \frac{c t^6}{2} - 4 u w + \frac{2 u w}{t^4} - \frac{7 u w}{2 t^3} + \frac{9 u w}{2 t^2} + \frac{u w}{2 t} + 6 t u w - 2 t^2 u w - \frac{1}{2} t^3 u w + \frac{3}{2} t^4 u w - \frac{1}{2} t^5 u w \right]$$

131a

```
FromCoefficientRules[CoefficientRules[z2[[4]], {c, u, w}] /. {(e_ → a_) :> (e → Simplify[a])}, {c, u, w}]
```

131a

$$-\frac{(1-t+t^2)^2 (-1+2t-3t^2+2t^3)}{t^3} - \frac{c (1-t+t^2)^3 (4+t-5t^2-t^3+t^4)}{2t^4} - \frac{(1-t+t^2)^3 (-4-5t+t^3) uw}{2t^4}$$

Exporting the above as PDF files

The below is adapted from pensieve://2016-04/GaussGassner/GaussGassnerDemo.nb.

```
ConditionalExport[fname_String, rest___] := Module[{temp, exists},
  temp = "ConditionalExportTemporary" <> "." <> FileExtension[fname];
  exists = FileExistsQ[fname];
  Export[temp, rest];
  If[exists && FileByteCount[fname] === FileByteCount[temp],
    DeleteFile[temp],
    (* else *) Print["Exporting " <> fname <> "..."];
    If[exists, DeleteFile[fname]];
    RenameFile[temp, fname]
  ];
  fname
]

SetOptions[$FrontEndSession, PrintingStyleEnvironment → "Working"];
TagProperties[_] := {};
TagProperties["ct-def"] = {PageWidth → 6 / 0.66};
Options[CellExport] = {
  PageWidth → 4 / 0.66, CellFilter → Identity, ExportDirectory → "Snips",
  ExportBaseFilename → Automatic, ExportFormat → ".pdf", ExportOptions → {}, Split → False
};
CellExport[tag_String, opts___Rule] := CellExport[
  NotebookGet[EvaluationNotebook[]],
  tag, opts
];
CellExport[nb_Notebook, tag_String] := CellExport[nb, tag, TagProperties[tag]];
CellExport[nb_Notebook, tag_String, OptionsPattern[]} := Module[
  {cells, cell, filename, format},
  filename = FileNameJoin[{OptionValue[ExportDirectory] /. Automatic → Directory[], OptionValue[ExportBaseFilename] /. Automatic → tag}];
  format = OptionValue[ExportFormat];
  cells = OptionValue[CellFilter][Cases[
    nb, c_Cell /; FreeQ[List @@ c, Cell] && !FreeQ[c, CellTags → tag],
    Infinity
  ]];
  If[! OptionValue[Split],
    If[Length[cells] ≥ 1,
      If[Length[cells] == 1,
        cells = Join[First[cells],
          Cell[PageWidth → 1.2 × 72 OptionValue[PageWidth], Background → {White, Opacity[0]}]],
        cells = Cell[CellGroup[cells], PageWidth → 72 OptionValue[PageWidth]]
      ];
      ConditionalExport[
        filename <> format, cells,
        ImageResolution → 300,
        OptionValue[ExportOptions]
      ]
    ];
  ];
]
```

```
]
],
k = 0;
Table[
  ++k;
  ConditionalExport[
    filename <> "-" <> ToString[k] <> format,
    Append[cell, PageWidth -> 72 OptionValue[PageWidth]],
    ImageResolution -> 300,
    OptionValue[ExportOptions]
  ],
  {cell, cells}
]
];
];

ExportCells := (
  nb = NotebookGet[EvaluationNotebook[]];
  tags = Cases[nb, (CellTags -> tag_String) :> tag, Infinity] // Union;
  Print[tags];
  CellExport /@ tags;
  Print["Done."]
);
```

ExportCells

```
{0817, 0m, 0mDemo, 0MetaAssoc, 0NO, 0NODemo, 0Q0, 0R, 0R3, 0R3Left, 0Util, 131,
 131a, 1DP, 1Gens, 1m, 1NOc, 1NOuw, 1Swirl, 1SwirlLeft, 1Util, Logos, T00, T01, T02, T03, T04}
```

Exporting Snips\1m.pdf...

Done.