

$(\gamma // \text{CC}_{\{u,v\}}[\{\alpha, \beta\}] // \text{RC}_{\{u,v\}}[\{-\alpha, -\beta\}]) \equiv \gamma$

InverseLieMorphismOnGenerator\$432

InverseLieMorphismOnGenerator\$433

$$-\frac{3 \langle ttu \rangle}{2} + \frac{13 \langle ttv \rangle}{3} - \frac{4 \langle tuu \rangle}{3} + \frac{77 \langle tuv \rangle}{6} + \frac{37 \langle tvu \rangle}{6} - \frac{71 \langle tvv \rangle}{6} - 2 \langle uuv \rangle - \frac{59 \langle uvv \rangle}{3} ==$$

$$\frac{4 \langle ttv \rangle}{3} - \frac{4 \langle tuu \rangle}{3} + \frac{11 \langle tuv \rangle}{6} + \frac{7 \langle tvu \rangle}{6} - \frac{11 \langle tvv \rangle}{6} - 2 \langle uuv \rangle + \frac{\langle uvv \rangle}{3}$$

$(\gamma // \text{CC}_{\{u,v\}}[\{\alpha, \text{MakeLieSeries}[0]\}] // \text{RC}_{\{u,v\}}[\{-\alpha, -\text{MakeLieSeries}[0]\}]) \equiv \gamma$

InverseLieMorphismOnGenerator\$592

InverseLieMorphismOnGenerator\$593

$$-\frac{3 \langle ttu \rangle}{2} + \frac{4 \langle ttv \rangle}{3} - \frac{4 \langle tuu \rangle}{3} + \frac{35 \langle tuv \rangle}{6} + \frac{13 \langle tvu \rangle}{6} - \frac{11 \langle tvv \rangle}{6} - 2 \langle uuv \rangle - \frac{5 \langle uvv \rangle}{3} ==$$

$$\frac{4 \langle ttv \rangle}{3} - \frac{4 \langle tuu \rangle}{3} + \frac{11 \langle tuv \rangle}{6} + \frac{7 \langle tvu \rangle}{6} - \frac{11 \langle tvv \rangle}{6} - 2 \langle uuv \rangle + \frac{\langle uvv \rangle}{3}$$

$\text{CC}_{\{u,v\}}[\{\alpha, \text{MakeLieSeries}[0]\}]$

LieMorphism[LieMorphism\$597]

Support // $\text{CC}_{\{u,v\}}[\{\alpha, \text{MakeLieSeries}[0]\}]$

$\{\langle u \rangle, \langle v \rangle\}$

$\gamma // \text{CC}_{\{u,v\}}[\{\alpha, \text{MakeLieSeries}[0]\}]$

$$\text{LS} \left[2 \overline{t} + \overline{u} - 2 \overline{v}, 3 \overline{tu} - 2 \overline{tv} - \frac{\overline{uv}}{2}, \right.$$

$$\left. \frac{2}{3} \overline{ttu} - \overline{ttv} + \frac{2}{3} \overline{tuv} - \frac{5}{2} \overline{uuv} - \frac{2}{3} \overline{tuu} - \overline{tvu} + \frac{11}{6} \overline{tvv} - \frac{4}{3} \overline{uvv} \right]$$

$\text{RC}_{\{u,v\}}[\{-\alpha, -\text{MakeLieSeries}[0]\}]$

LieMorphism[LieMorphism\$518]

$\{-\alpha, -\text{MakeLieSeries}[0]\}$

$$\left\{ \text{LS} \left[-\overline{t}, 2 \overline{tu} + \overline{tv} - \frac{3 \overline{uv}}{2}, \right. \right.$$

$$\left. \left. \frac{7}{6} \overline{ttu} - \frac{1}{3} \overline{ttv} + \frac{3}{2} \overline{tuv} - \frac{4}{3} \overline{uuv} + \frac{5}{3} \overline{tuu} - \frac{3}{2} \overline{tvu} - \frac{5}{6} \overline{tvv} - \frac{3}{2} \overline{uvv} \right], \text{LS}[0, 0, 0] \right\}$$

$u // \text{RC}_{\{u,v\}}[\{-\alpha, -\text{MakeLieSeries}[0]\}]$

$\text{LS}[\overline{u}, 0, 0]$

$u // \text{CC}_{\{u,v\}}[\{\alpha, \text{MakeLieSeries}[0]\}]$

$$\text{LS} \left[\overline{u}, -2 \overline{tu} + 2 \overline{uv}, 2 \overline{ttu} - 4 \overline{tuv} + \overline{uuv} + \frac{3}{2} \overline{tuu} - \frac{5}{2} \overline{tvu} + 2 \overline{uvv} \right]$$

v // CC_{u,v}[{α, MakeLieSeries[0]}]

LS[\overline{v} , 0, 0]

u // CC_u[α]

LS[\overline{u} , $-2 \overline{t u} + 2 \overline{u v}$, $2 \overline{t t u} - 4 \overline{t u v} + \overline{u u v} + \frac{3}{2} \overline{t u u} - \frac{5}{2} \overline{t v u} + 2 \overline{u v v}$]

u // RC_u[-α]

LS[\overline{u} , $2 \overline{t u} - 2 \overline{u v}$, $2 \overline{t t u} - 4 \overline{t u v} - \overline{u u v} - \frac{3}{2} \overline{t u u} - \frac{3}{2} \overline{t v u} + 2 \overline{u v v}$]

u // RC_{u,v}[{-α, -β}]

LS[\overline{u} , $2 \overline{t v} - 2 \overline{u v}$, $2 \overline{t t v} - 5 \overline{t u v} + 2 \overline{u u v} - \overline{t v u} - 2 \overline{t v v} + 2 \overline{u v v}$]

RC_u[-α]

InverseLieMorphismOnGenerator\$867

LieMorphism[LieMorphism\$868]

?? InverseLieMorphismOnGenerator\$867

Global`InverseLieMorphismOnGenerator\$867

InverseLieMorphismOnGenerator\$867[] = Hold[Inverse[LieMorphism[LieMorphism\$865]] [u]]

InverseLieMorphismOnGenerator\$867[1] = Defer[⟨u⟩]

InverseLieMorphismOnGenerator\$867[d\$_Integer] /; d\$ > 1 :=

Evaluate[uming\$866][d\$] = $-\sum_{k=1}^{d-1}$ LieMorphism[LieMorphism\$865][Evaluate[uming\$866][k]][d\$]

LieMorphism\$7835[]

Hold[LieMorphism[LieMorphism\$7835, {⟨u⟩ → LS[\overline{u} , 0, 0], ⟨v⟩ → LS[\overline{v} , 0, 0]}]]

{α, MakeLieSeries[0]}

{LS[$-2 \overline{t} + 2 \overline{u} - 2 \overline{v}$, $-\frac{\overline{t u}}{2} - \frac{\overline{t v}}{2} + \overline{u v}$,
 $-\frac{5}{3} \overline{t t u} - \frac{7}{6} \overline{t t v} + \frac{2}{3} \overline{t u v} + \frac{1}{2} \overline{u u v} - \overline{t u u} - \frac{4}{3} \overline{t v v} - \frac{3}{2} \overline{u v v}$], LS[0, 0, 0]}

-{α, MakeLieSeries[0]}

{LS[$2 \overline{t} - 2 \overline{u} + 2 \overline{v}$, $\frac{\overline{t u}}{2} + \frac{\overline{t v}}{2} - \overline{u v}$,
 $\frac{5}{3} \overline{t t u} + \frac{7}{6} \overline{t t v} - \frac{2}{3} \overline{t u v} - \frac{1}{2} \overline{u u v} + \overline{t u u} + \frac{4}{3} \overline{t v v} + \frac{3}{2} \overline{u v v}$], LS[0, 0, 0]}

InverseLieMorphismOnGenerator\$516[]

Hold[Inverse[LieMorphism[LieMorphism\$514]] [u]]

`InverseLieMorphismOnGenerator$516[2]`

0

?? InverseLieMorphismOnGenerator\$592

Global`InverseLieMorphismOnGenerator\$592

`InverseLieMorphismOnGenerator$592[] = Hold[Inverse[LieMorphism[LieMorphism$590]][u]]`

`InverseLieMorphismOnGenerator$592[1] = Defer[⟨u⟩]`

`InverseLieMorphismOnGenerator$592[d_Integer] /; d > 1 :=`

`Evaluate[uming$591][d] = -∑k=1d-1 LieMorphism[LieMorphism$590][Evaluate[uming$591][k]][d]`

? Evaluate

`Evaluate[expr]` causes *expr* to be evaluated even if it appears as the argument of a function whose attributes specify that it should be held unevaluated. >>