

Pensieve Header: U(I2D) Results.

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\2011-08\\w-Computations"];
```

```
<< "U(I2D)-Program.m"
```

```
r = T[{1, 0, 0, 0}, {0, 0, 1, 0}] + T[{0, 1, 0, 0}, {0, 0, 0, 1}];
```

```
ModDegree[3, TExp[r]]
```

$$1 \otimes 1 + \eta \otimes y + \frac{\eta^2 \otimes y^2}{2} + \xi \otimes x - \frac{1}{2} (\xi \eta \otimes y) + \xi \eta \otimes x y + \frac{\xi^2 \otimes x^2}{2}$$

```
ModDegree[2,
```

```
  R = TExp[r];
```

```
  PutOn[3, {1, 2}, R] ** PutOn[3, {1, 3}, R] ** PutOn[3, {2, 3}, R]
```

```
]
```

$$1 \otimes 1 \otimes 1 + 1 \otimes \eta \otimes y + 1 \otimes \xi \otimes x + \eta \otimes 1 \otimes y + \eta \otimes y \otimes 1 + \xi \otimes 1 \otimes x + \xi \otimes x \otimes 1$$

```
ModDegree[6,
```

```
  R = TExp[r];
```

```
  PutOn[3, {1, 2}, R] ** PutOn[3, {1, 3}, R] ** PutOn[3, {2, 3}, R] -
```

```
  PutOn[3, {2, 3}, R] ** PutOn[3, {1, 3}, R] ** PutOn[3, {1, 2}, R]
```

```
]
```

```
0
```

```
ModDegree[6,
```

```
  R = TExp[r];
```

```
  PutOn[3, {1, 2}, R] ** PutOn[3, {1, 3}, R] - PutOn[3, {1, 3}, R] ** PutOn[3, {1, 2}, R]
```

```
]
```

```
0
```