

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\2016-02"];
```

```
<< SnG.m
```

```
w = UU[δaa[1, 1, 4, 2, 4]];
```

```
{
  w // tm[1, 2, 1] // hts[4, 1],
  w // hts[4, 1] // hts[4, 2] // tm[1, 2, 1]
} // Column
```

```
UU[δaa[1, 1, 4, 1, 4] + δβ[-b12 ∈1 ∈8]]
```

```
UU[δaa[1, 1, 4, 1, 4] + δβ[b12 ∈1 ∈8]]
```

```
{
  UU[δaa[1, 1, 1, 2, 3]] // hσ[3, -1] // hts[-1, 1] // hσ[-1, 3],
  UU[δaa[1, 1, 1, 2, 3]] // hts[3, 1]
} // Column
```

```
UU[c[b1 b2 ∈4 ∈9 - b1 b2 ∈4 ∈10, 1] + δa[-b1 ∈1, 2, 1] + δa[b2 ∈4 ∈10, 1, 1] + δaa[1, 1, 1, 2, 3]]
```

```
UU[δa[-b1 ∈1, 2, 1] + δa[b2 ∈1, 1, 1] + δaa[1, 1, 1, 2, 3]]
```

```
hmhts[u_] :=
```

```
(u // hm[2, 1, 1] // hts[1, 4]) - (u // hts[1, 4] // hts[2, 4] // hm[2, 1, 1]);
```

```
hmhts[UU[δaa[1, 4, 1, 5, 2]]]
```

```
UU[0]
```

```
thhJacobi[u_, v_, w_] := Plus[
```

```
-thb[0, 0][u, hb[0][v, w]] + hb[0][thb[0, 0][u, v], w] + thb[0, 0][thb[0, 0][u, v],
  w] + hb[0][v, thb[0, 0][u, w]] - thb[0, 0][thb[0, 0][u, w], v]
```

```
];
```

```
{u, v, w} = {UU[a[1, 0, 1]], UU[a[1, 2, 0]], UU[δaa[1, 4, 0, 4, 0]]};
```

```
thhJacobi[u, v, w]
```

```
UU[ca[2 b0 b42 ∈4 - 2 b0 b42 ∈42, 1, 2, 0] + ca[-2 b0 b42 ∈4 + 2 b0 b42 ∈42, 0, 2, 1] +
```

```
ca[2 b2 b42 ∈4 - 2 b2 b42 ∈42, 0, 0, 1] + ca[-2 b2 b42 ∈4 + 2 b2 b42 ∈42, 1, 0, 0] +
```

```
δa[b0 b2 b4 - b0 b2 b4 ∈2, 4, 1] + δa[-b0 b42 + b0 b42 ∈2, 2, 1] +
```

```
δaa[-2 b0 b4 + 2 b0 b4 ∈4, 2, 0, 4, 1] + δaa[2 b42 - 2 b42 ∈4, 0, 0, 2, 1]]
```