TO CORRECT: there is a missing Y_3 in the middle, plus the terms coming from D_0 that have ∂Y_3 .

Left mixed case

In case $i <_2 j <_1 k$, we can write $\Gamma = Y_1 | X_1 i X_2 j X_3 | X_4 k X_5 | Y_2$, where Y_i 's are clouds of $<_1$ and X_j 's are clouds of $<_2$. Denoting by ∂Y_i the summands of $D_0 Y_i$ in which we split a cloud of $<_2$ belonging to Y_i , we have the following formulas:

```
D_1^iD_2^{jk}(Y_1|X_1iX_2jX_3|X_4kX_5|Y_2) = Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|Y_2||Y_1|X_1X_2jX_3|X_4kX_5|Y_2|
                                                                                                                                                                                     + \left. Y_1 | X_1 i X_2 j X_3 | Y_2 | | Y_1 | X_1 i X_2 X_3 | X_4 k X_5 | Y_2 | | Y_1 | X_1 X_2 j X_3 | X_4 k X_5 | Y_2 | Y_1 | X_1 X_2 j X_3 | X_2 k X_3 | Y_2 | Y_1 | X_1 X_2 j X_3 | X_2 k X_3 | Y_2 | Y_1 | X_1 X_2 j X_3 | X_2 k X_3 | Y_2 | Y_1 | X_1 X_2 j X_3 | X_2 k X_3 | Y_2 | Y_1 | X_1 X_2 j X_3 | X_2 k X_3 | Y_2 | Y_1 | X_1 X_2 j X_3 | X_2 k X_3 |
                                                                                                                                                                                     +Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                                                                                                     +Y_{1}|X_{1}iX_{2}X_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                                                                                                     +Y_1|X_1X_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|Y_2
                                                                                                                                                                                     + \left. Y_1 | X_1 X_2 j X_3 | X_4 k X_5 | Y_2 | | Y_1 | X_1 i X_2 j X_3 | Y_2 | | Y_1 | X_1 i X_2 X_3 | X_4 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_3 | X_3 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | Y_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | Y_2 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 | X_1 i X_2 X_3 | X_2 k X_5 | X_1 i X_1 i X_2 X_3 | X_2 k X_5 | X_1 i X_1 i X_2 X_3 | X_2 k X_5 | X_1 i X_1 i X_2 X_3 | X_2 k X_5 | X_1 i X_1 i X_2 X_3 | X_1 i X_1 i X_1 i X_2 X_3 | X_1 i X_1 i X_1 i X_2 X_3 | X_1 i X_1 i X_1 i X_2 X_3 | X_1 i X_1 i X_1 i X_1 i X_1 i X_2 X_3 | X_1 i X
                                                                                                                                                                                     +Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}
                                                                                                                                                                                     +Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
D_1^j D_2^{ik}(Y_1 | X_1 i X_2 j X_3 | X_4 k X_5 | Y_2) = Y_1 | X_1 i X_2 j X_3 | X_4 k X_5 | Y_2 | | Y_1 | X_1 X_2 j X_3 | Y_2 | | Y_1 | X_1 i X_2 X_3 | X_4 k X_5 | Y_2 | Y_1 | Y_1 | Y_1 | Y_2 | Y_3 | Y_3 | Y_4 | Y_5 | 
                                                                                                                                                                                     +Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                                                                                                     +Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                                                                                                    +Y_{1}|X_{1}X_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}
                                                                                                                                                                                    +Y_1|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1X_2jX_3|Y_2
                                                                                                                                                                                    +Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                                                                                                    +Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}
                                                                                                                                                                                     + Y_1 |X_1 i X_2 X_3| X_4 k X_5 |Y_2| |Y_1| X_1 X_2 j X_3 |Y_2| |Y_1| X_1 i X_2 j X_3 |X_4 k X_5| Y_2
+Y_1|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|Y_2
                                                                                                                                                                                     +Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{4}kX_{5}|Y_{2}|
                                                                                                                                                                                     +Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                                                                                                    +Y_1|X_1iX_2jX_3|Y_2||Y_1|X_1X_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_4kX_5|Y_2|
                                                                                                                                                                                    +Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                                                                                                    +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}
                                                                                                                                                                                    +Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}
                                                                                                                                                                                    +Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}
                                                                                                                                                                                     +Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}
                                                                                                                                                                                    + \left. Y_1 | X_1 X_2 j X_3 | X_1 i X_2 X_3 | Y_2 | | Y_1 | X_1 i X_2 j X_3 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | | Y_1 | X_4 k X_5 | Y_2 | X_5 | X_5
```

 $+Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|Y_{2}||Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|$

```
\begin{split} D_2^{ij}D_1^k(Y_1|X_1iX_2jX_3|X_4kX_5|Y_2) &= Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|Y_2||Y_1|X_4kX_5|Y_2\\ &+ Y_1|X_1iX_2jX_3|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|X_4kX_5|Y_2||Y_1|X_4kX_5|Y_2\\ &+ Y_1|X_1X_2jX_3|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|Y_2||Y_1|X_4kX_5|Y_2\\ &+ Y_1|X_1X_2jX_3|X_1iX_2X_3|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_4kX_5|Y_2\\ &+ Y_1|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|Y_2\\ &+ Y_1|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_1iX_2X_3|X_1X_2jX_3|X_4kX_5|Y_2\\ &+ Y_1|X_4kX_5|Y_2||Y_1|X_1X_2jX_3|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|Y_2\\ &+ Y_1|X_4kX_5|Y_2||Y_1|X_1X_2jX_3|X_1iX_2X_3|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2\\ &+ Y_1|X_4kX_5|Y_2||Y_1|X_1X_2jX_3|X_1iX_2X_3|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2\\ \end{split}
```

$$\begin{split} D_2^{ik}D_1^j(Y_1|X_1iX_2jX_3|X_4kX_5|Y_2) &= Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|X_1X_2jX_3|Y_2\\ &+ Y_1|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1X_2jX_3|Y_2\\ &+ Y_1|X_1X_2jX_3|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_4kX_5|Y_2\\ &+ Y_1|X_1X_2jX_3|Y_2||Y_1|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2\\ \end{split}$$

$$\begin{split} D_2^{jk}D_1^i(Y_1|X_1iX_2jX_3|X_4kX_5|Y_2) &= Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1X_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|Y_2\\ &+ Y_1|X_1X_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|Y_2\\ &+ Y_1|X_1iX_2X_3|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1X_2jX_3|X_4kX_5|Y_2\\ &+ Y_1|X_1iX_2X_3|Y_2||Y_1|X_1X_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2\\ \end{split}$$

```
D_0D_2^{ijk}(Y_1|X_1iX_2jX_3|X_4kX_5|Y_2) = \partial Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|X_2X_3|
                                                                                                  +Y_1|X_1iX_2jX_3|X_4kX_5|\partial Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|X_4kX_5|Y_2|
                                                                                                  +Y_{1}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}X_{3}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{1}X_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}X_{5}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_1|X_1iX_2jX_3|X_4kX_5|X_4X_5|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|X_4kX_5|Y_2|
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||\partial Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|X_4kX_5|\partial Y_2
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|Y_{2}
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|Y_{2}||Y_{1}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|Y_{2}
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|Y_{2}
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|Y_{2}
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}X_{3}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                                  + Y_1 |X_1 i X_2 j X_3| X_4 k X_5 |Y_2| |Y_1| X_1 i X_2 X_3 |X_1 X_2 X_3| X_1 X_2 j X_3 |X_4 k X_5| Y_2
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{1}X_{2}X_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}X_{5}|X_{4}kX_{5}|Y_{2}|
                                                                                                  + \left. Y_1 | X_1 i X_2 j X_3 | X_4 k X_5 | Y_2 | | Y_1 | X_1 i X_2 X_3 | X_1 X_2 j X_3 | X_4 k X_5 | X_4 X_5 | Y_2 | X_5 | X_5
                                                                                                  + \partial Y_1 | X_1 X_2 j X_3 | X_1 i X_2 X_3 | X_4 k X_5 | Y_2 | | Y_1 | X_1 i X_2 j X_3 | X_4 k X_5 | Y_2 |
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|\partial Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                                  +Y_{1}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}X_{3}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|Y_{2}||Y_{1}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}X_{2}X_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}X_{2}X_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{1}X_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}X_{5}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                                 + \left. Y_1 | X_1 X_2 j X_3 | X_1 i X_2 X_3 | X_4 k X_5 | X_4 X_5 | Y_2 | | Y_1 | X_1 i X_2 j X_3 | X_4 k X_5 | Y_2 \right.
                                                                                                  +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}^{3}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||\partial Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
```

 $+ Y_1|X_1X_2jX_3|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|\partial Y_2$ $+ Y_1|X_1X_2jX_3|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2$

```
D_{2}^{ijk}D_{0}(Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}) = \partial Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}X_{3}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2}|X_{2
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||\partial Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +\partial Y_1|X_1X_2jX_3|X_1iX_2X_3|X_4kX_5|Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||\partial Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|\partial Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|\partial Y_{2}
                                                                                      +Y_1|X_1X_2jX_3|X_1iX_2X_3|X_4kX_5|\partial Y_2||Y_1|X_1iX_2jX_3|X_4kX_5|Y_2
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|\partial Y_{2}|
                                                                                      +Y_{1}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                      +Y_{1}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|Y_{2}
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|Y_{2}
                                                                                      +Y_{1}|X_{1}X_{2}X_{3}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}X_{3}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                      +Y_{1}|X_{1}X_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}X_{3}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{1}X_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{1}X_{2}X_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{1}X_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{1}X_{2}X_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}X_{5}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}kX_{5}|Y_{2}
                                                                                      +Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}X_{3}|X_{1}X_{2}jX_{3}|X_{4}X_{5}|X_{4}kX_{5}|Y_{2}
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}X_{5}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}X_{5}|X_{4}kX_{5}|Y_{2}
                                                                                      + \left. Y_1 | X_1 i X_2 j X_3 | X_4 k X_5 | X_4 X_5 | Y_2 | | Y_1 | X_1 i X_2 X_3 | X_1 X_2 j X_3 | X_4 k X_5 | Y_2 \right.
                                                                                      +Y_1|X_1iX_2jX_3|X_4kX_5|Y_2||Y_1|X_1iX_2X_3|X_1X_2jX_3|X_4kX_5|X_4X_5|Y_2
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|X_{4}X_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|Y_{2}|
                                                                                      +Y_{1}|X_{1}X_{2}jX_{3}|X_{1}iX_{2}X_{3}|X_{4}kX_{5}|Y_{2}||Y_{1}|X_{1}iX_{2}jX_{3}|X_{4}kX_{5}|X_{4}X_{5}|Y_{2}
```