## Closed-form solution for the natural frequencies of low-speed cracked Euler-Bernoulli rotating beams

## Coefficients

Belén Muñoz-Abella, Lourdes Rubio and Patricia Rubio

**Table A1.** Coefficients  $C_{ijk}$ , for  $\mu_1^{\alpha 0}$ 

-				
		k = 0		
	i	j	0	1
	0		3.5160	$-7.53 \cdot 10^{-5}$
	1		-0.0007	0.002
	2		0.1755	0.1968
•		k = 1		
Ī	i	j	0	1
	0		$-1.48 \cdot 10^{-7}$	$3.39 \cdot 10^{-7}$
	1		$3.28 \cdot 10^{-6}$	$1.17 \cdot 10^{-6}$
	2		$-2.82 \cdot 10^{-5}$	$7.64 \cdot 10^{-5}$

**Table A2.** Coefficients  $C_{ijk}$ , for  $\mu_2^{\alpha 0}$ 

k = 0 $i$ $j$ $0$ $1$ $2$ $3$ $0$ $22.0344$ $0.0004$ $-0.003$ $0.009$ $1$ $-0.001$ $-0.021$ $0.3264$ $-0.858$ $2$ $0.1539$ $0.265$ $-1.6925$ $4.7296$ $k = 1$ $i$ $i$ $0$ $1$ $2$ $3$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
k = 1	55
	6
i $i$ 0 1 2 3	
1 2 3	
0 $3.45 \cdot 10^{-8}$ $-1.59 \cdot 10^{-6}$ $2.17 \cdot 10^{-5}$ $-6.83 \cdot 10^{-6}$	$10^{-5}$
1 $3.48 \cdot 10^{-6}$ 0.0001 $-0.001$ 0.0045	5
$2   -3.46 \cdot 10^{-5}   -0.0003   0.0082   -0.023$	

**Table A3.** Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha 01}$ . Part 1

-	1 = 0		
	k=0		
i	i - i	0	1
0	J	3.4384	$1.03 \cdot 10^{-6}$
1		$1.58 \cdot 10^{-6}$	$6.02 \cdot 10^{-6}$
2		0.1717	0.2273
	k = 1	0.1.	
i	j	0	1
0	,	$-1.48 \cdot 10^{-7}$	$3.39 \cdot 10^{-7}$
1		$3.28 \cdot 10^{-6}$	$1.17 \cdot 10^{-6}$
2		$-2.82 \cdot 10^{-5}$	$7.64 \cdot 10^{-5}$
	k = 2		
i	j	0	1
0	-	$-4.3 \cdot 10^{-6}$	$2.88 \cdot 10^{-10}$
1		$4.64 \cdot 10^{-10}$	$-3.13 \cdot 10^{-9}$
2		$1.01 \cdot 10^{-7}$	$1.85 \cdot 10^{-7}$
	k = 3		
i	j	0	1
0		$7.4 \cdot 10^{-9}$	$-1.27 \cdot 10^{-12}$
1		$7.94 \cdot 10^{-12}$	$2.92 \cdot 10^{-11}$
2		$-1.97 \cdot 10^{-10}$	$-3.97 \cdot 10^{-10}$
	l = 1		
	l = 1 $k = 0$		
i		0	1
<i>i</i> 0	k = 0	$2.28\cdot 10^{-1}$	$-6.54 \cdot 10^{-6}$
0 1	k = 0	$\begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \end{array}$	$-6.54 \cdot 10^{-6}$ $2.54 \cdot 10^{-5}$
0	k = 0 $j$	$2.28\cdot 10^{-1}$	$-6.54 \cdot 10^{-6}$
0 1 2	k = 0	$2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003$	$-6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038$
0 1 2 i	k = 0 $j$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $	$ \begin{array}{r} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $
0 1 2 i 0	k = 0 $j$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \end{array} $	$ \begin{array}{r} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $ $ \begin{array}{r} 1 \\ 9.9 \cdot 10^{-8} \end{array} $
0 1 2 i 0 1	k = 0 $j$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \\ 3.24 \cdot 10^{-7} \end{array} $	$ \begin{array}{r} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $ $ \begin{array}{r} 1 \\ 9.9 \cdot 10^{-8} \\ -2.41 \cdot 10^{-6} \end{array} $
0 1 2 i 0	k = 0 $j$ $k = 1$ $j$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \end{array} $	$ \begin{array}{r} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $ $ \begin{array}{r} 1 \\ 9.9 \cdot 10^{-8} \end{array} $
0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \\ 3.24 \cdot 10^{-7} \\ -3.43 \cdot 10^{-5} \end{array} $	$-6.54 \cdot 10^{-6}$ $2.54 \cdot 10^{-5}$ $-0.0038$ $1$ $9.9 \cdot 10^{-8}$ $-2.41 \cdot 10^{-6}$ $4.57 \cdot 10^{-5}$
0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \\ 3.24 \cdot 10^{-7} \\ -3.43 \cdot 10^{-5} \end{array} $	$ \begin{array}{r} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $ $ \begin{array}{r} 1 \\ 9.9 \cdot 10^{-8} \\ -2.41 \cdot 10^{-6} \\ 4.57 \cdot 10^{-5} \end{array} $
0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \\ 3.24 \cdot 10^{-7} \\ -3.43 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 0 \\ 1.26 \cdot 10^{-5} \end{array} $	$ \begin{array}{c} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $ $ \begin{array}{c} 1 \\ 9.9 \cdot 10^{-8} \\ -2.41 \cdot 10^{-6} \\ 4.57 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ -6.88 \cdot 10^{-10} \end{array} $
i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \\ 3.24 \cdot 10^{-7} \\ -3.43 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 0 \\ 1.26 \cdot 10^{-5} \\ -4.33 \cdot 10^{-9} \end{array} $	$-6.54 \cdot 10^{-6}$ $2.54 \cdot 10^{-5}$ $-0.0038$ $1$ $9.9 \cdot 10^{-8}$ $-2.41 \cdot 10^{-6}$ $4.57 \cdot 10^{-5}$ $1$ $-6.88 \cdot 10^{-10}$ $1.3 \cdot 10^{-10}$
0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \\ 3.24 \cdot 10^{-7} \\ -3.43 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 0 \\ 1.26 \cdot 10^{-5} \end{array} $	$ \begin{array}{c} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $ $ \begin{array}{c} 1 \\ 9.9 \cdot 10^{-8} \\ -2.41 \cdot 10^{-6} \\ 4.57 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ -6.88 \cdot 10^{-10} \end{array} $
i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 3$	$2.28 \cdot 10^{-1}$ $-1.31 \cdot 10^{-5}$ $0.003$ $0$ $-2.61 \cdot 10^{-3}$ $3.24 \cdot 10^{-7}$ $-3.43 \cdot 10^{-5}$ $0$ $1.26 \cdot 10^{-5}$ $-4.33 \cdot 10^{-9}$ $1.68 \cdot 10^{-7}$	$-6.54 \cdot 10^{-6}$ $2.54 \cdot 10^{-5}$ $-0.0038$ $1$ $9.9 \cdot 10^{-8}$ $-2.41 \cdot 10^{-6}$ $4.57 \cdot 10^{-5}$ $1$ $-6.88 \cdot 10^{-10}$ $1.3 \cdot 10^{-10}$ $-3.22 \cdot 10^{-7}$
i 0 1 2 i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	$2.28 \cdot 10^{-1}$ $-1.31 \cdot 10^{-5}$ $0.003$ $0$ $-2.61 \cdot 10^{-3}$ $3.24 \cdot 10^{-7}$ $-3.43 \cdot 10^{-5}$ $0$ $1.26 \cdot 10^{-5}$ $-4.33 \cdot 10^{-9}$ $1.68 \cdot 10^{-7}$	$ \begin{array}{r} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $ $ \begin{array}{r} 1 \\ 9.9 \cdot 10^{-8} \\ -2.41 \cdot 10^{-6} \\ 4.57 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 1 \\ -6.88 \cdot 10^{-10} \\ 1.3 \cdot 10^{-10} \\ -3.22 \cdot 10^{-7} \end{array} $
i 0 1 2 i 0 1 2 i 0 0 1 2 i 0 0	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 3$	$ \begin{array}{c} 2.28 \cdot 10^{-1} \\ -1.31 \cdot 10^{-5} \\ 0.003 \end{array} $ $ \begin{array}{c} 0 \\ -2.61 \cdot 10^{-3} \\ 3.24 \cdot 10^{-7} \\ -3.43 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 0 \\ 1.26 \cdot 10^{-5} \\ -4.33 \cdot 10^{-9} \\ 1.68 \cdot 10^{-7} \end{array} $ $ \begin{array}{c} 0 \\ -2.16 \cdot 10^{-8} \end{array} $	$-6.54 \cdot 10^{-6}$ $2.54 \cdot 10^{-5}$ $-0.0038$ $1$ $9.9 \cdot 10^{-8}$ $-2.41 \cdot 10^{-6}$ $4.57 \cdot 10^{-5}$ $1$ $-6.88 \cdot 10^{-10}$ $1.3 \cdot 10^{-10}$ $-3.22 \cdot 10^{-7}$ $1$ $1.81 \cdot 10^{-12}$
i 0 1 2 i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 3$	$2.28 \cdot 10^{-1}$ $-1.31 \cdot 10^{-5}$ $0.003$ $0$ $-2.61 \cdot 10^{-3}$ $3.24 \cdot 10^{-7}$ $-3.43 \cdot 10^{-5}$ $0$ $1.26 \cdot 10^{-5}$ $-4.33 \cdot 10^{-9}$ $1.68 \cdot 10^{-7}$	$ \begin{array}{r} -6.54 \cdot 10^{-6} \\ 2.54 \cdot 10^{-5} \\ -0.0038 \end{array} $ $ \begin{array}{r} 1 \\ 9.9 \cdot 10^{-8} \\ -2.41 \cdot 10^{-6} \\ 4.57 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 1 \\ -6.88 \cdot 10^{-10} \\ 1.3 \cdot 10^{-10} \\ -3.22 \cdot 10^{-7} \end{array} $

**Table A4.** Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha 01}$ . Part 2

	<i>l</i> = 2		
	k = 0		
i	j	0	1
0	,	-0.213	$8.51 \cdot 10^{-6}$
1		$4.0 \cdot 10^{-5}$	-0.0002
2		-0.017	-0.007
	k = 1		
i	j	0	1
0		0.0024	$-1.6 \cdot 10^{-7}$
1		$-8.79 \cdot 10^{-7}$	$2.88 \cdot 10^{-7}$
2		-0.0002	$9.99 \cdot 10^{-5}$
	k = 2		
i	j	0	1
0		$-1.16 \cdot 10^{-5}$	$1.37 \cdot 10^{-9}$
1		$9.83 \cdot 10^{-9}$	$-1.56 \cdot 10^{-8}$
2		$-9.77 \cdot 10^{-7}$	$-2.66 \cdot 10^{-7}$
	k = 3		
i	j	0	1
0		$2.0 \cdot 10^{-8}$	$-4.36 \cdot 10^{-12}$
1		$-2.07 \cdot 10^{-11}$	$4.37 \cdot 10^{-11}$
2		$1.70 \cdot 10^{-9}$	$5.38 \cdot 10^{-10}$
	l=3		
	l = 3 $k = 0$		
i		0	1
0	k=0	$6.11 \cdot 10^{-2}$	$-3.77 \cdot 10^{-6}$
0 1	k=0	$ 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} $	$-3.77 \cdot 10^{-6}$ $0.0002$
0	k = 0 $j$	$6.11 \cdot 10^{-2}$	$-3.77 \cdot 10^{-6}$
0 1 2	k=0	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $
0 1 2	k = 0 $j$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $
0 1 2 i 0	k = 0 $j$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \hline \\ 0 \\ -6.87 \cdot 10^{-4} \\ \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $ $ \begin{array}{r} 1 \\ 1.24 \cdot 10^{-7} \end{array} $
0 1 2 i 0 1	k = 0 $j$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \hline \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $ $ \begin{array}{r} 1 \\ 1.24 \cdot 10^{-7} \\ -1.65 \cdot 10^{-6} \end{array} $
0 1 2 i 0	k = 0 $j$ $k = 1$ $j$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \hline \\ 0 \\ -6.87 \cdot 10^{-4} \\ \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $ $ \begin{array}{r} 1 \\ 1.24 \cdot 10^{-7} \end{array} $
0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $ $ \begin{array}{r} 1 \\ 1.24 \cdot 10^{-7} \\ -1.65 \cdot 10^{-6} \\ -9.95 \cdot 10^{-5} \end{array} $
0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \\ \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $ $ \begin{array}{r} 1 \\ 1.24 \cdot 10^{-7} \\ -1.65 \cdot 10^{-6} \\ -9.95 \cdot 10^{-5} \end{array} $
0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \\ \\ 0 \\ 3.28 \cdot 10^{-6} \\ \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $ $ \begin{array}{r} 1 \\ 1.24 \cdot 10^{-7} \\ -1.65 \cdot 10^{-6} \\ -9.95 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 1 \\ -1.38 \cdot 10^{-9} \end{array} $
0 1 2 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \\ \\ 0 \\ 3.28 \cdot 10^{-6} \\ -1.83 \cdot 10^{-9} \\ \end{array}$	$-3.77 \cdot 10^{-6}$ $0.0002$ $0.009$ $1$ $1.24 \cdot 10^{-7}$ $-1.65 \cdot 10^{-6}$ $-9.95 \cdot 10^{-5}$ $1$ $-1.38 \cdot 10^{-9}$ $1.07 \cdot 10^{-8}$
0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \\ \\ 0 \\ 3.28 \cdot 10^{-6} \\ \end{array}$	$ \begin{array}{r} -3.77 \cdot 10^{-6} \\ 0.0002 \\ 0.009 \end{array} $ $ \begin{array}{r} 1 \\ 1.24 \cdot 10^{-7} \\ -1.65 \cdot 10^{-6} \\ -9.95 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 1 \\ -1.38 \cdot 10^{-9} \end{array} $
i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 3$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \\ \\ 0 \\ 3.28 \cdot 10^{-6} \\ -1.83 \cdot 10^{-9} \\ 6.98 \cdot 10^{-7} \\ \end{array}$	$-3.77 \cdot 10^{-6}$ $0.0002$ $0.009$ $1$ $1.24 \cdot 10^{-7}$ $-1.65 \cdot 10^{-6}$ $-9.95 \cdot 10^{-5}$ $1$ $-1.38 \cdot 10^{-9}$ $1.07 \cdot 10^{-8}$ $3.76 \cdot 10^{-7}$
i 0 1 2 i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \\ \\ 0 \\ 3.28 \cdot 10^{-6} \\ -1.83 \cdot 10^{-9} \\ 6.98 \cdot 10^{-7} \\ \\ \\ \end{array}$	$-3.77 \cdot 10^{-6}$ $0.0002$ $0.009$ $1$ $1.24 \cdot 10^{-7}$ $-1.65 \cdot 10^{-6}$ $-9.95 \cdot 10^{-5}$ $1$ $-1.38 \cdot 10^{-9}$ $1.07 \cdot 10^{-8}$ $3.76 \cdot 10^{-7}$
i 0 1 2 i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 3$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \\ \\ 0 \\ 3.28 \cdot 10^{-6} \\ -1.83 \cdot 10^{-9} \\ 6.98 \cdot 10^{-7} \\ \\ \\ 0 \\ -5.62 \cdot 10^{-9} \\ \end{array}$	$-3.77 \cdot 10^{-6}$ $0.0002$ $0.009$ $1$ $1.24 \cdot 10^{-7}$ $-1.65 \cdot 10^{-6}$ $-9.95 \cdot 10^{-5}$ $1$ $-1.38 \cdot 10^{-9}$ $1.07 \cdot 10^{-8}$ $3.76 \cdot 10^{-7}$ $1$ $2.43 \cdot 10^{-12}$
i 0 1 2 i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 3$	$\begin{array}{c} 6.11 \cdot 10^{-2} \\ -2.62 \cdot 10^{-5} \\ 0.012 \\ \\ \\ 0 \\ -6.87 \cdot 10^{-4} \\ 8.77 \cdot 10^{-7} \\ -0.0001 \\ \\ \\ 0 \\ 3.28 \cdot 10^{-6} \\ -1.83 \cdot 10^{-9} \\ 6.98 \cdot 10^{-7} \\ \\ \\ \end{array}$	$-3.77 \cdot 10^{-6}$ $0.0002$ $0.009$ $1$ $1.24 \cdot 10^{-7}$ $-1.65 \cdot 10^{-6}$ $-9.95 \cdot 10^{-5}$ $1$ $-1.38 \cdot 10^{-9}$ $1.07 \cdot 10^{-8}$ $3.76 \cdot 10^{-7}$

Table A5. Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha 01}$ . Part 1.

	l = 0			
	k = 0			
-	$\kappa = 0$			2
i	1	0	1	2
0		21.5358	0.0002	-0.0007
1		-0.4974	-0.010	0.037
2		6.4207	0.2908	-0.306
	k = 1			
i	j	0	1	2
0		0.0038	$-2.87 \cdot 10^{-6}$	$9.74 \cdot 10^{-6}$
1		0.0054	0.0001	-0.0004
2		0.0717	-0.001	0.0034
	k = 2			
i	i	0	1	2
0	,	$-9.09 \cdot 10^{-6}$	$8.47 \cdot 10^{-9}$	$-2.9 \cdot 10^{-8}$
1		$-1.41 \cdot 10^{-5}$	$-3.5 \cdot 10^{-7}$	$1.21 \cdot 10^{-6}$
2		0.0002	$2.83 \cdot 10^{-6}$	$-9.52 \cdot 10^{-6}$
_	1 1	0.0002	200-10	710E - 10
	l=1 $k=0$			
	$\kappa = 0$			
i	1	0	1	2
0		6.0078	-0.0029	0.0101
1		5.9999	0.1456	-0.5019
2		-75.6705	-1.2725	4.1153
	k = 1			
i	j	0	1	2
0		-0.0463	$3.88 \cdot 10^{-5}$	-0.0001
1		-0.0652	-0.0016	0.0058
2		0.8649	0.0141	-0.047
	k = 2			
i	j	0	1	2
0		0.0001	$-1.15 \cdot 10^{-7}$	$3.88 \cdot 10^{-7}$
1		0.0001	$4.77 \cdot 10^{-6}$	$-1.64 \cdot 10^{-5}$
2		-0.0023	$-3.83 \cdot 10^{-5}$	0.0001
	1 = 2			
	k = 0			
i	i	0	1	2
0	,	-23.6121	0.0116	-0.0402
1		-23,5965	-0.5690	1.9888
2		297.6026	5.01085	-16.2443
	k = 1	277.0020	5.01005	10.2443
i	i - 1	0	1	2
0	,	0.1823	-0.0001	0.0005
1		0.1623	0.0067	-0.0229
2		-3.40180	-0.0552	0.1832
	k = 2	-3.40180	-0.0552	0.1632
-:		0	- 1	2
i	j	0	4.50 40-7	1 50 10-6
0		-0.0004	$4.52 \cdot 10^{-7}$	$-1.53 \cdot 10^{-6}$
1		0.0007	$-1.86 \cdot 10^{-5}$	$6.44 \cdot 10^{-5}$
2		0.0093	0.0001	-0.0005

Table A6. Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha 01}$ . Part 2.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		l=3			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		k = 0			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	i	i	0	1	2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0	,	33,4641	-0.0173	0.0594
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2		-421.7541	-7.4147	24.1189
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		k = 1			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	i	j	0	1	2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0		-0.2583	0.0002	-0.0007
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		-0.3637	-0.0098	0.03429
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2		4.8209	0.0818	-0.2721
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		k = 2			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	i	j	0	1	_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0		0.0006		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		0.0009	$2.78 \cdot 10^{-5}$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2		-0.0132	-0.0002	0.0007
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1 0			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\kappa = 0$			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	i	k = 0			_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		k = 0			_
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	k = 0	-15.5205 -15.5034	0.0085 -0.4201	-0.0294 1.4450
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	j	-15.5205 -15.5034	0.0085 -0.4201	-0.0294 1.4450
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1 2	j	-15.5205 -15.5034 195.5431	0.0085 -0.4201 .6681	-0.0294 1.4450 -11.9753
	0 1 2	j	-15.5205 -15.5034 195.5431	0.0085 -0.4201 .6681	-0.0294 1.4450 -11.9753
	0 1 2 i 0	j	-15.5205 -15.5034 195.5431 0 0.1198	0.0085 -0.4201 .6681 1 -0.0001	-0.0294 1.4450 -11.9753 2 0.0004
	0 1 2 i 0 1	j	-15.5205 -15.5034 195.5431 0 0.1198 0.1686	0.0085 -0.4201 .6681 1 -0.0001 0.0049	-0.0294 1.4450 -11.9753 2 0.0004 -0.0169
0 $-0.0003$ $3.29 \cdot 10^{-7}$ $-1.12 \cdot 10^{-6}$ 1 $-0.0004$ $-1.36 \cdot 10^{-5}$ $4.74 \cdot 10^{-5}$	0 1 2 i 0 1	j $k=1$ $j$	-15.5205 -15.5034 195.5431 0 0.1198 0.1686	0.0085 -0.4201 .6681 1 -0.0001 0.0049	-0.0294 1.4450 -11.9753 2 0.0004 -0.0169
1 $-0.0004$ $-1.36 \cdot 10^{-5}$ $4.74 \cdot 10^{-5}$	0 1 2 i 0 1 2	j $k=1$ $j$	-15.5205 -15.5034 195.5431 0 0.1198 0.1686 -2.2351	0.0085 -0.4201 .6681 1 -0.0001 0.0049 -0.0407	-0.0294 1.4450 -11.9753 2 0.0004 -0.0169 0.1344
	i 0 1 0 1 2	j $k=1$ $j$	-15.5205 -15.5034 195.5431 0 0.1198 0.1686 -2.2351	0.0085 -0.4201 .6681 1 -0.0001 0.0049 -0.0407	-0.0294 1.4450 -11.9753 2 0.0004 -0.0169 0.1344
2 0.0061 0.0001 -0.0003	0 1 2 i 0 1 2	j $k=1$ $j$	-15.5205 -15.5034 195.5431 0 0.1198 0.1686 -2.2351 0 -0.0003	0.0085 -0.4201 .6681 1 -0.0001 0.0049 -0.0407	$-0.0294$ $1.4450$ $-11.9753$ 2 $0.0004$ $-0.0169$ $0.1344$ 2 $-1.12 \cdot 10^{-6}$
2 0.0001 0.0001 -0.0003	i 0 1 2 i 0 1 2	j $k=1$ $j$	-15.5205 -15.5034 195.5431 0 0.1198 0.1686 -2.2351 0 -0.0003 -0.0004	$0.0085$ $-0.4201$ $.6681$ $1$ $-0.0001$ $0.0049$ $-0.0407$ $1$ $3.29 \cdot 10^{-7}$ $-1.36 \cdot 10^{-5}$	$-0.0294$ $1.4450$ $-11.9753$ 2 $0.0004$ $-0.0169$ $0.1344$ 2 $-1.12 \cdot 10^{-6}$ $4.74 \cdot 10^{-5}$

Table A7. Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha02}$ . Part 1.

	l = 0		
	k = 0		
i	j	0	1
0		3.2894	$-5.84 \cdot 10^{-6}$
1		-0.218	$4.56 \cdot 10^{-4}$
2		2.93	0.231
	k = 1		
i	j	0	1
0		0.0017	$9.26 \cdot 10^{-8}$
1		$2.37 \cdot 10^{-3}$	$-6.48 \cdot 10^{-6}$
2		-0.0315	$-3.74 \cdot 10^{-5}$
	k = 2		
i	j	0	1
0		$-4.05 \cdot 10^{-6}$	$-3.97 \cdot 10^{-10}$
1		$-6.2 \cdot 10^{-6}$	$2.65 \cdot 10^{-8}$
2		$8.63 \cdot 10^{-5}$	$1.53 \cdot 10^{-8}$

Table A8. Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha_{02}}$ . Part 2.

	l = 1		
	k=0		
i		0	1
0	j	0.649	4.24 · 10 <sup>-6</sup>
1		0.606	$-4.45 \cdot 10^{-4}$
			$-7.54 \cdot 10^{-3}$
2	k = 1	-7.63	-/.54 · 10
i	κ = 1	0	1
	J	-0.005	$-5.13 \cdot 10^{-8}$
0		$-6.6 \cdot 10^{-3}$	$5.48 \cdot 10^{-6}$
1		0.0873	$3.48 \cdot 10^{-5}$
	k = 2	0.0673	3.31 · 10 -
i		0	1
	j	0 1.14 · 10 <sup>-5</sup>	1 1.46 · 10 <sup>-10</sup>
0		$1.72 \cdot 10^{-5}$	
1			$-1.61 \cdot 10^{-8}$
2		$-2.39 \cdot 10^{-4}$	$-4.85 \cdot 10^{-8}$
	l=2		
	k = 0		
i	j	0	1
0		-0.579	$1.00 \cdot 10^{-5}$
1		$-0.51 \cdot 10^{-3}$	$-9.72 \cdot 10^{-4}$
2		6.3763	-0.0157
	k = 1		
i	j	0	1 7
0		0.004	$-1.21 \cdot 10^{-7}$
1		$5.56 \cdot 10^{-3}$	$1.21 \cdot 10^{-5}$
2		-0.0731	$7.20 \cdot 10^{-5}$
	k = 2		
i	j	0	1
0		$-9.86 \cdot 10^{-6}$	$3.59 \cdot 10^{-10}$
1		$-1.45 \cdot 10^{-5}$	$-3.55 \cdot 10^{-8}$
2		$2.01 \cdot 10^{-4}$	$-9.50 \cdot 10^{-8}$
	l=3		
	k = 0		
i	j	0	1 _
0		0.152	$-1.05 \cdot 10^{-5}$
1		$0.117 \cdot 10^{-3}$	$1.05 \cdot 10^{-3}$
2		-1.4338	0.0172
	k = 1		
i	j	0	1
0		$-1.07 \cdot 10^{-3}$	$1.31 \cdot 10^{-7}$
1		$-1.27 \cdot 10^{-3}$	$-1.31 \cdot 10^{-5}$
2		0.0166	$-7.94 \cdot 10^{-5}$
	k = 2		
i	j	0	1
0		$2.41 \cdot 10^{-6}$	$-3.81 \cdot 10^{-10}$
1		$3.34 \cdot 10^{-6}$	$3.84 \cdot 10^{-8}$
2		$-4.55 \cdot 10^{-5}$	$1.07 \cdot 10^{-7}$

**Table A9.** Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha 02}$ . Part 1.

	l = 0			
	k = 0			
i	j	0	1	2
	,	_	-	_
0		20.0623	-0.0002	0.0007
1		1.0323	0.0037	-0.0074
	k = 1			
i	j	0	1	2
	,	_	$3.02 \cdot 10^{-6}$	_
0		0.0152		$-1.21 \cdot 10^{-5}$
1		0.0138	$2.41 \cdot 10^{-4}$	$1.02 \cdot 10^{-4}$
	k = 2			
i	j	0	1	2
	,	$-3.62 \cdot 10^{-5}$	$-5.90 \cdot 10^{-8}$	$4.16 \cdot 10^{-8}$
0		-3.62 · 10		4.10 · 10
1		$4.63 \cdot 10^{-5}$	$7.77 \cdot 10^{-8}$	$-3.42 \cdot 10^{-7}$
	<i>l</i> = 1			
	k = 0			
			4	
i	j	0	1	2
0		24.2191	0.0032	-0.0136
1		-12.6656	-0.0570	0.1352
	k = 1			
i		0	1	2
	1	_	-	_
0		-0.1870	$-5.63 \cdot 10^{-5}$	$2.12 \cdot 10^{-4}$
1		0.1726	$4.50 \cdot 10^{-4}$	-0.0018
	k = 2			
i	j	0	1	2
	,	4.44 · 10 <sup>-4</sup>	1.94 · 10 <sup>-7</sup>	$-7.15 \cdot 10^{-7}$
0				
1		$5.34 \cdot 10^{-4}$	$-1.42 \cdot 10^{-6}$	$6.10 \cdot 10^{-6}$
	1 = 2			
	k = 0			
	k = 0	0	4	2
i	k = 0	0	1	2
0		-97.4548	-0.0212	0.0754
		_	-	_
0		-97.4548	-0.0212	0.0754
0	j $k = 1$	-97.4548 50.7294	-0.0212 0.3056	0.0754 -0.7439
0 1	j	-97.4548 50.7294	-0.0212 0.3056	0.0754 -0.7439
0 1 i 0	j $k = 1$	-97.4548 50.7294 0 0.7511	-0.0212 0.3056 1 2.89 · 10 <sup>-4</sup>	0.0754 -0.7439 2 -0.0012
0 1	j $k = 1$ $j$	-97.4548 50.7294	-0.0212 0.3056	0.0754 -0.7439
0 1 i 0	j $k = 1$	-97.4548 50.7294 0 0.7511	-0.0212 0.3056 1 2.89 · 10 <sup>-4</sup>	0.0754 -0.7439 2 -0.0012
0 1 i 0	j $k = 1$ $j$ $k = 2$	-97.4548 50.7294 0 0.7511	-0.0212 0.3056 1 2.89 · 10 <sup>-4</sup>	0.0754 -0.7439 2 -0.0012
0 1 i 0 1	j $k = 1$ $j$	-97.4548 50.7294 0 0.7511 -0.6913	$ \begin{array}{r} -0.0212 \\ 0.3056 \end{array} $ $ \begin{array}{r} 1 \\ 2.89 \cdot 10^{-4} \\ -0.0026 \end{array} $	0.0754 -0.7439 2 -0.0012 0.0109
i 0 1 0 1 i 0	j $k = 1$ $j$ $k = 2$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017	$ \begin{array}{r} -0.0212 \\ 0.3056 \end{array} $ $ \begin{array}{r} 1 \\ 2.89 \cdot 10^{-4} \\ -0.0026 \end{array} $ $ \begin{array}{r} 1 \\ -1.13 \cdot 10^{-6} \end{array} $	$ \begin{array}{c} 0.0754 \\ -0.7439 \end{array} $ $ \begin{array}{c} 2 \\ -0.0012 \\ 0.0109 \end{array} $ $ \begin{array}{c} 2 \\ 3.93 \cdot 10^{-6} \end{array} $
0 1 i 0 1	j $k = 1$ $j$ $k = 2$	-97.4548 50.7294 0 0.7511 -0.6913	$ \begin{array}{r} -0.0212 \\ 0.3056 \end{array} $ $ \begin{array}{r} 1 \\ 2.89 \cdot 10^{-4} \\ -0.0026 \end{array} $	0.0754 -0.7439 2 -0.0012 0.0109
i 0 1 0 1 i 0	j $k = 1$ $j$ $k = 2$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017	$ \begin{array}{r} -0.0212 \\ 0.3056 \end{array} $ $ \begin{array}{r} 1 \\ 2.89 \cdot 10^{-4} \\ -0.0026 \end{array} $ $ \begin{array}{r} 1 \\ -1.13 \cdot 10^{-6} \end{array} $	$ \begin{array}{c} 0.0754 \\ -0.7439 \end{array} $ $ \begin{array}{c} 2 \\ -0.0012 \\ 0.0109 \end{array} $ $ \begin{array}{c} 2 \\ 3.93 \cdot 10^{-6} \end{array} $
i 0 1 0 1 i 0	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017	$ \begin{array}{r} -0.0212 \\ 0.3056 \end{array} $ $ \begin{array}{r} 1 \\ 2.89 \cdot 10^{-4} \\ -0.0026 \end{array} $ $ \begin{array}{r} 1 \\ -1.13 \cdot 10^{-6} \end{array} $	$ \begin{array}{c} 0.0754 \\ -0.7439 \end{array} $ $ \begin{array}{c} 2 \\ -0.0012 \\ 0.0109 \end{array} $ $ \begin{array}{c} 2 \\ 3.93 \cdot 10^{-6} \end{array} $
i 0 1 0 1 i 0 1	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017 0.0021	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $	$0.0754 \\ -0.7439$ $2 \\ -0.0012 \\ 0.0109$ $2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5}$
i 0 1 0 1 i 0 1	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017 0.0021	$ \begin{array}{c} -0.0212 \\ 0.3056 \end{array} $ $ \begin{array}{c} 1 \\ 2.89 \cdot 10^{-4} \\ -0.0026 \end{array} $ $ \begin{array}{c} 1 \\ -1.13 \cdot 10^{-6} \\ 8.70 \cdot 10^{-6} \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \hline \\ 2 \\ -0.0012 \\ 0.0109 \\ \hline \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \hline \\ 2 \\ \end{array}$
i 0 1 i 0 1 i 0 1 i 0 0 1	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017 0.0021	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505 \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \hline \\ 2 \\ -0.0012 \\ 0.0109 \\ \hline \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \hline \\ 2 \\ -0.17864 \\ \hline \end{array}$
i 0 1 0 1 i 0 1	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017 0.0021	$ \begin{array}{c} -0.0212 \\ 0.3056 \end{array} $ $ \begin{array}{c} 1 \\ 2.89 \cdot 10^{-4} \\ -0.0026 \end{array} $ $ \begin{array}{c} 1 \\ -1.13 \cdot 10^{-6} \\ 8.70 \cdot 10^{-6} \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \hline \\ 2 \\ -0.0012 \\ 0.0109 \\ \hline \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \hline \\ 2 \\ \end{array}$
i 0 1 i 0 1 i 0 1 i 0 0 1	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017 0.0021	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505 \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \hline \\ 2 \\ -0.0012 \\ 0.0109 \\ \hline \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \hline \\ 2 \\ -0.17864 \\ \hline \end{array}$
0 1 i 0 1 i 0 1	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$ $k = 1$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786	$-0.0212 \\ 0.3056$ $1 \\ 2.89 \cdot 10^{-4} \\ -0.0026$ $1 \\ -1.13 \cdot 10^{-6} \\ 8.70 \cdot 10^{-6}$ $1 \\ 0.0505 \\ -0.7278$	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \\ \hline 2 \\ -0.0012 \\ 0.0109 \\ \\ \hline 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \\ \hline \\ 2 \\ -0.17864 \\ 1.8195 \\ \\ \end{array}$
i 0 1 i 0 1 i i 0 1 i i i i i i i i i i	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505\\ -0.7278 \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \\ 2 \\ -0.0012 \\ 0.0109 \\ \\ \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \\ \\ \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 i 0 1 i 0 1 i 0 1 i 0 1 i 0 i 0	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$ $k = 1$	0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505\\ -0.7278 \end{array} $ $ \begin{array}{c} 1\\ 7.87 \cdot 10^{-4} \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \\ 2 \\ -0.0012 \\ 0.0109 \\ \\ \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \\ \\ 2 \\ -0.17864 \\ 1.8195 \\ \\ \\ 2 \\ 0.0029 \\ \end{array}$
i 0 1 i 0 1 i i 0 1 i i i i i i i i i i	k = 1 $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$ $k = 1$	-97.4548 50.7294 0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505\\ -0.7278 \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \\ 2 \\ -0.0012 \\ 0.0109 \\ \\ \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \\ \\ \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 i 0 1 i 0 1 i 0 1 i 0 1 i 0 i 0	j $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$ $k = 1$	0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505\\ -0.7278 \end{array} $ $ \begin{array}{c} 1\\ 7.87 \cdot 10^{-4} \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \\ 2 \\ -0.0012 \\ 0.0109 \\ \\ \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \\ \\ 2 \\ -0.17864 \\ 1.8195 \\ \\ \\ 2 \\ 0.0029 \\ \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1	j $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505\\ -0.7278 \end{array} $ $ \begin{array}{c} 1\\ 7.87 \cdot 10^{-4} \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \\ 2 \\ -0.0012 \\ 0.0109 \\ \\ \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \\ \\ 2 \\ -0.17864 \\ 1.8195 \\ \\ \\ 2 \\ 0.0029 \\ \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i i 0 1 1	k = 1 $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$ $k = 1$	0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786 0 -1.1104 1.0121	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505\\ -0.7278 \end{array} $ $ \begin{array}{c} 1\\ 7.87 \cdot 10^{-4}\\ 0.0064 \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \hline \\ 2 \\ -0.0012 \\ 0.0109 \\ \hline \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \hline \\ 2 \\ -0.17864 \\ 1.8195 \\ \hline \\ 2 \\ 0.0029 \\ -0.0262 \\ \hline \\ 2 \\ \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1	j $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786 0 -1.1104 1.0121 0 0.0026	$-0.0212 \\ 0.3056$ $1 \\ 2.89 \cdot 10^{-4} \\ -0.0026$ $1 \\ -1.13 \cdot 10^{-6} \\ 8.70 \cdot 10^{-6}$ $1 \\ 0.0505 \\ -0.7278$ $1 \\ 7.87 \cdot 10^{-4} \\ 0.0064$ $1 \\ 2.82 \cdot 10^{-6}$	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \hline \\ 2 \\ -0.0012 \\ 0.0109 \\ \hline \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \hline \\ 2 \\ -0.17864 \\ 1.8195 \\ \hline \\ 2 \\ 0.0029 \\ -0.0262 \\ \hline \\ 2 \\ -1.02 \cdot 10^{-5} \\ \hline \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i i 0 1 1	j $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	0 0.7511 -0.6913 0 -0.0017 0.0021 0 144.9567 -74.2786 0 -1.1104 1.0121	$ \begin{array}{c} -0.0212\\ 0.3056 \end{array} $ $ \begin{array}{c} 1\\ 2.89 \cdot 10^{-4}\\ -0.0026 \end{array} $ $ \begin{array}{c} 1\\ -1.13 \cdot 10^{-6}\\ 8.70 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 1\\ 0.0505\\ -0.7278 \end{array} $ $ \begin{array}{c} 1\\ 7.87 \cdot 10^{-4}\\ 0.0064 \end{array} $	$\begin{array}{c} 0.0754 \\ -0.7439 \\ \hline \\ 2 \\ -0.0012 \\ 0.0109 \\ \hline \\ 2 \\ 3.93 \cdot 10^{-6} \\ -3.34 \cdot 10^{-5} \\ \hline \\ 2 \\ -0.17864 \\ 1.8195 \\ \hline \\ 2 \\ 0.0029 \\ -0.0262 \\ \hline \\ 2 \\ \end{array}$

**Table A10.** Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha02}$ . Part 2.

	l=4			
	k = 0			
i	j	0	1	2
0		-77.4273	-0.0552	0.2090
1		37.9792	0.7178	-1.9805
	k = 1			
i	j	0	1	2
0		0.5833	$8.51 \cdot 10^{-4}$	-0.0031
1		-0.5172	-0.0072	0.0281
	k = 2			
i	j	0	1	2
0		-0.0013	$-3.02 \cdot 10^{-6}$	$1.08 \cdot 10^{-5}$
1		0.0016	$2.33 \cdot 10^{-5}$	$-8.83 \cdot 10^{-5}$
	l = 5			
	l = 5 $k = 0$			
i		0	1	2
<i>i</i> 0		0 7.1506	1 0.0219	2 -0.0816
		_	-	_
0		7.1506	0.0219	-0.0816
0	k = 0	7.1506	0.0219	-0.0816
0	k = 0	7.1506 -2.5121	0.0219 -0.266	-0.0816 0.7833
0 1	k = 0	7.1506 -2.5121	0.0219 -0.266	-0.0816 0.7833
0 1 i 0	k = 0	7.1506 -2.5121 0 -0.0481	0.0219 -0.266 1 3.49 · 10 <sup>-4</sup>	-0.0816 0.7833 2 0.0013
0 1 i 0	k = 0 $j$ $k = 1$ $j$	7.1506 -2.5121 0 -0.0481 0.0341	0.0219 -0.266 1 3.49 · 10 <sup>-4</sup> 0.0028	-0.0816 0.7833 2 0.0013
i 0 1	k = 0 $j$ $k = 1$ $j$	7.1506 -2.5121 0 -0.0481 0.0341	0.0219 -0.266 1 3.49 · 10 <sup>-4</sup> 0.0028	-0.0816 0.7833 2 0.0013 -0.0113
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$	7.1506 -2.5121 0 -0.0481 0.0341	0.0219 -0.266 1 3.49 · 10 <sup>-4</sup> 0.0028	-0.0816 0.7833 2 0.0013 -0.0113

**Table A11.** Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha03}$ . Part 1.

	l = 0			
	k = 0			
i	j	0	1	2
0		2.9033	0.1887	$-6.93 \cdot 10^{-5}$
1		$1.71 \cdot 10^{-5}$	$3.13 \cdot 10^{-6}$	0.2592
	k = 1			
i	j	0	1	2
0		0.0067	$2.18 \cdot 10^{-4}$	$1.93 \cdot 10^{-6}$
1		$-4.40 \cdot 10^{-7}$	$-8.90 \cdot 10^{-8}$	$4.17 \cdot 10^{-4}$
	k = 2			
i	j	0	1	2
0		$-3.16 \cdot 10^{-5}$	$1.04 \cdot 10^{-6}$	$-1.49 \cdot 10^{-8}$
1		$3.06 \cdot 10^{-9}$	$6.57 \cdot 10^{-10}$	$2.00 \cdot 10^{-6}$
	k = 3			
i	j	0	1	2
0		$5.38 \cdot 10^{-8}$	$-1.81 \cdot 10^{-9}$	$5.56 \cdot 10^{-11}$
1		$2.46 \cdot 10^{-12}$	$-2.12 \cdot 10^{-12}$	$-3.55 \cdot 10^{-9}$

Table A12. Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha03}$ . Part 2.

	l = 1			
	k = 0			
i	j	0	1	2
0	,	1.6423	0.0253	$7.08 \cdot 10^{-4}$
1		$1.54 \cdot 10^{-4}$	$-2.58 \cdot 10^{-5}$	-0.04052
	k = 1			
i	j	0	1	2
0	,	-0.0172	$2.96 \cdot 10^{-4}$	$-1.81 \cdot 10^{-5}$
1		$3.58 \cdot 10^{-6}$	$5.66 \cdot 10^{-7}$	$5.08 \cdot 10^{-4}$
	k = 2			
i	j	0	1	2
0	,	$7.99 \cdot 10^{-5}$	$1.47 \cdot 10^{-6}$	$1.23 \cdot 10^{-7}$
1		$-2.71 \cdot 10^{-8}$	$-4.09 \cdot 10^{-9}$	$-2.73 \cdot 10^{-6}$
	k = 3			
i	j	0	1	2
0	-	$-1.34 \cdot 10^{-7}$	$-2.60 \cdot 10^{-9}$	$-2.86 \cdot 10^{-10}$
1		$5.62 \cdot 10^{-11}$	$9.48 \cdot 10^{-12}$	$4.87 \cdot 10^{-9}$
	<i>l</i> = 2			
_	k = 0			
i	j	0	1	2
0	,	-1.2841	-0.1531	-0.0018
1		$3.63 \cdot 10^{-4}$	$5.29 \cdot 10^{-5}$	-0.0696
	k = 1			
i	j	0	1	2
0		0.0123	0.0017	$3.64 \cdot 10^{-5}$
1		$-8.34 \cdot 10^{-6}$	$-1.24 \cdot 10^{-6}$	$7.16 \cdot 10^{-4}$
	k = 2			
i	j	0	1	2
0		$-5.42 \cdot 10^{-5}$	$-8.66 \cdot 10^{-6}$	$-2.70 \cdot 10^{-7}$
1		$6.17 \cdot 10^{-8}$	$9.23 \cdot 10^{-9}$	$-2.83 \cdot 10^{-6}$
	k = 3			
i	j	0	1	2
0		$8.84 \cdot 10^{-8}$	$1.50 \cdot 10^{-8}$	$5.97 \cdot 10^{-10}$
1		$-1.35 \cdot 10^{-10}$	$-2.20 \cdot 10^{-11}$	$4.35 \cdot 10^{-9}$
	l=3			
	k = 0			
i	j	0	1	2
0		0.2363	0.1137	0.0012
1		$2.36 \cdot 10^{-4}$	$-3.28 \cdot 10^{-5}$	0.0804
	k = 1			
i	j	0	1	2
0		-0.0015	-0.0013	$-2.51 \cdot 10^{-5}$
1	, ,	$5.73 \cdot 10^{-6}$	$8.28 \cdot 10^{-7}$	$8.53 \cdot 10^{-4}$
	k=2			
i	j	0	1	2
0		$4.68 \cdot 10^{-6}$	$6.38 \cdot 10^{-6}$	1.76 · 10 <sup>-7</sup>
_1	1 0	$-3.56 \cdot 10^{-8}$	$-6.52 \cdot 10^{-9}$	$3.74 \cdot 10^{-6}$
,	k=3	0	4	2
i	j	$0$ $-5.65 \cdot 10^{-9}$	$-1.11 \cdot 10^{-8}$	$2 -4.24 \cdot 10^{-10}$
-		- 5 65 TO 9	$-1.11 \cdot 10^{-6}$	$-4.24 \cdot 10^{-10}$
0		$9.16 \cdot 10^{-11}$	1.39cdot 10 <sup>-11</sup>	$6.09 \cdot 10^{-9}$

**Table A13.** Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha03}$ . Part 1.

	l = 0			
	k = 0			
i	i	0	1	2
0	,	17.9020	$3.68 \cdot 10^{-4}$	0.0013
_1		1.9741	0.0073	-0.0133
	k = 1			
i	j	0	1	2
0		0.0307	$5.21 \cdot 10^{-6}$	$-2.20 \cdot 10^{-5}$
1		-0.0267	$2.24 \cdot 10^{-4}$	$1.88 \cdot 10^{-4}$
_	k = 2	0.020		1100 10
i		0	1	2
	j	_		_
0		$-7.20 \cdot 10^{-5}$	$-6.83 \cdot 10^{-8}$	$7.54 \cdot 10^{-8}$
1		$8.33 \cdot 10^{-5}$	$1.37 \cdot 10^{-7}$	$-6.17 \cdot 10^{-7}$
	<i>l</i> = 1			
	k = 0			
-	. — U	0	- 1	2
i	1	0	1	2
0		50.6639	0.0061	-0.0245
1		-24.1352	-0.1131	0.2394
	k = 1			
i	j	0	1	2
0	,	-0.3771	$-9.40 \cdot 10^{-5}$	$3.86 \cdot 10^{-4}$
1		0.3288	$7.68 \cdot 10^{-4}$	-0.0033
1	1. 2	0.5400	7.00 - 10	-0.0033
	k=2			
i	j	0	1	2
0		$8.81 \cdot 10^{-4}$	$3.57 \cdot 10^{-7}$	$-1.31 \cdot 10^{-6}$
1		-0.0010	$-2.51 \cdot 10^{-6}$	$1.09 \cdot 10^{-5}$
	1 = 2			
	l=2 k=0			
-	l=2 $k=0$	0	1	2
i		0	1	2
0		-202.3762	-0.0376	0.1375
	k = 0 $j$	_		
0		-202.3762	-0.0376	0.1375
0	k = 0 $j$ $k = 1$	-202.3762	-0.0376	0.1375
0 1	k = 0 $j$	-202.3762 95.2545	-0.0376 0.5961	0.1375 -1.3386
0	k = 0 $j$ $k = 1$	-202.3762 95.2545 0 1.4996	-0.0376 0.5961 1 5.26 · 10 <sup>-4</sup>	0.1375 -1.3386 2 -0.0022
0 1 i 0	k = 0 $j$ $k = 1$ $j$	-202.3762 95.2545	-0.0376 0.5961	0.1375 -1.3386
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$	-202.3762 95.2545 0 1.4996 -1.2978	$ \begin{array}{r} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{r} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $	0.1375 -1.3386 2 -0.0022 0.0195
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$	-202.3762 95.2545 0 1.4996 -1.2978	$-0.0376$ $0.5961$ 1 $5.26 \cdot 10^{-4}$ $-0.0022$	0.1375 -1.3386 2 -0.0022 0.0195
0 1 i 0 1 i 0	k = 0 $j$ $k = 1$ $j$ $k = 2$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \end{array} $	$0.1375$ $-1.3386$ 2 $-0.0022$ $0.0195$ 2 $7.29 \cdot 10^{-6}$
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$	-202.3762 95.2545 0 1.4996 -1.2978	$-0.0376$ $0.5961$ 1 $5.26 \cdot 10^{-4}$ $-0.0022$	0.1375 -1.3386 2 -0.0022 0.0195
0 1 i 0 1 i 0	k = 0 $j$ $k = 1$ $j$ $k = 2$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \end{array} $	$0.1375$ $-1.3386$ 2 $-0.0022$ $0.0195$ 2 $7.29 \cdot 10^{-6}$
0 1 i 0 1 i 0	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \end{array} $	$0.1375$ $-1.3386$ 2 $-0.0022$ $0.0195$ 2 $7.29 \cdot 10^{-6}$
i 0 1 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401	$ \begin{array}{r} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{r} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{r} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$
i 0 1 i 0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$
i 0 1 i 0 1 i 0 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ 0.0907 \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$ $2 \\ -0.3301$
i 0 1 i 0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$
i 0 1 i 0 1 i 0 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ 0.0907 \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$ $2 \\ -0.3301$
i 0 1 i 0 1 i 0 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ 0.0907 \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$ $2 \\ -0.3301$
i 0 1 1 i 0 1 1 i i 1 1 i i 1 1 i i 1 1 i i i i	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$ $k = 1$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401 0 293.6793 -132.5252	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ 0.0907 \\ -1.3646 \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$ $2 \\ -0.3301 \\ 3.2750$
i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 i 0 1 i 0 1 i 0 i 0	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$ $j$ $k = 1$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401 0 293.6793 -132.5252 0 -2.1421	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ 0.0907 \\ -1.3646 \end{array} $ $ \begin{array}{c} 1 \\ -0.0013 \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$ $2 \\ -0.3301 \\ 3.2750$ $2 \\ 0.0053$
i 0 1 1 i 0 1 1 i i 1 1 i i 1 1 i i 1 1 i i i i	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401 0 293.6793 -132.5252	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ 0.0907 \\ -1.3646 \end{array} $	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$ $2 \\ -0.3301 \\ 3.2750$
i 0 1 1 i 0 1 1 i 0 1 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401 0 293.6793 -132.5252 0 -2.1421 1.8052	$-0.0376 \\ 0.5961$ $1 \\ 5.26 \cdot 10^{-4} \\ -0.0022$ $1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5}$ $1 \\ 0.0907 \\ -1.3646$ $1 \\ -0.0013 \\ 0.0111$	$\begin{array}{c} 0.1375 \\ -1.3386 \\ \\ \hline \\ 2 \\ -0.0022 \\ 0.0195 \\ \\ \hline \\ 2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5} \\ \\ \hline \\ 2 \\ -0.3301 \\ 3.2750 \\ \\ \hline \\ 2 \\ 0.0053 \\ -0.0472 \\ \\ \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i i 0 1 1 i i 0 1 1 i i 0 1 1 i i i i	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401 0 293.6793 -132.5252 0 -2.1421 1.8052	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ 0.0907 \\ -1.3646 \end{array} $ $ \begin{array}{c} 1 \\ -0.0013 \\ 0.0111 \end{array} $	$\begin{array}{c} 0.1375 \\ -1.3386 \\ \hline \\ 2 \\ -0.0022 \\ 0.0195 \\ \hline \\ 2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5} \\ \hline \\ 2 \\ -0.3301 \\ 3.2750 \\ \hline \\ 2 \\ 0.0053 \\ -0.0472 \\ \hline \\ 2 \\ \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401 0 293.6793 -132.5252 0 -2.1421 1.8052 0 0.0049	$-0.0376 \\ 0.5961$ $1 \\ 5.26 \cdot 10^{-4} \\ -0.0022$ $1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5}$ $1 \\ 0.0907 \\ -1.3646$ $1 \\ -0.0013 \\ 0.0111$ $1 \\ 5.09 \cdot 10^{-6}$	$0.1375 \\ -1.3386$ $2 \\ -0.0022 \\ 0.0195$ $2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5}$ $2 \\ -0.3301 \\ 3.2750$ $2 \\ 0.0053 \\ -0.0472$ $2 \\ -1.84 \cdot 10^{-5}$
i 0 1 1 i 0 1 1 i 0 1 1 i i 0 1 1 i i 0 1 1 i i 0 1 1 i i i i	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	-202.3762 95.2545 0 1.4996 -1.2978 0 -0.0034 0.00401 0 293.6793 -132.5252 0 -2.1421 1.8052	$ \begin{array}{c} -0.0376 \\ 0.5961 \end{array} $ $ \begin{array}{c} 1 \\ 5.26 \cdot 10^{-4} \\ -0.0022 \end{array} $ $ \begin{array}{c} 1 \\ -2.06 \cdot 10^{-6} \\ 1.50 \cdot 10^{-5} \end{array} $ $ \begin{array}{c} 1 \\ 0.0907 \\ -1.3646 \end{array} $ $ \begin{array}{c} 1 \\ -0.0013 \\ 0.0111 \end{array} $	$\begin{array}{c} 0.1375 \\ -1.3386 \\ \hline \\ 2 \\ -0.0022 \\ 0.0195 \\ \hline \\ 2 \\ 7.29 \cdot 10^{-6} \\ -6.10 \cdot 10^{-5} \\ \hline \\ 2 \\ -0.3301 \\ 3.2750 \\ \hline \\ 2 \\ 0.0053 \\ -0.0472 \\ \hline \\ 2 \\ \end{array}$

**Table A14.** Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha 03}$ . Part 2.

	l=4			
	k = 0			
i	j	0	1	2
0		-146.3744	-0.09923	0.3739
1		57.7186	1.3429	-3.5708
	k = 1			
i	j	0	1	2
0		1.0175	0.0015	-0.0057
1		-0.78555	-0.0123	0.0511
	k = 2			
i	j	0	1	2
0		-0.0023	$-5.50 \cdot 10^{-6}$	$1.97 \cdot 10^{-5}$
1		0.0024	$4.04 \cdot 10^{-5}$	$1.61 \cdot 10^{-4}$
	l = 5			
	k = 0			
	,,			
i	j	0	1	2
0	j	7.3916	0.0396	-0.1475
-	j			_
0	j k = 1	7.3916	0.0396	-0.1475
0	j	7.3916	0.0396	-0.1475
0	j	7.3916 2.2931	0.0396 -0.4936	-0.1475 1.4205
0 1	j $k = 1$ $j$	7.3916 2.2931	0.0396 -0.4936	-0.1475 1.4205
0 1 i 0	j	7.3916 2.2931 0 -0.0200	0.0396 -0.4936 1 6.20 · 10 <sup>-4</sup>	-0.1475 1.4205 2 0.0023
0 1 i 0	j $k = 1$ $j$	7.3916 2.2931 0 -0.0200 -0.0316	$ \begin{array}{c} 0.0396 \\ -0.4936 \end{array} $ $ \begin{array}{c} 1 \\ 6.20 \cdot 10^{-4} \\ 0.0049 \end{array} $	-0.1475 1.4205 2 0.0023 -0.0205
0 1 i 0 1	j $k = 1$ $j$	7.3916 2.2931 0 -0.0200 -0.0316	$ \begin{array}{r} 0.0396 \\ -0.4936 \end{array} $ $ \begin{array}{r} 1 \\ 6.20 \cdot 10^{-4} \\ 0.0049 \end{array} $	-0.1475 1.4205 2 0.0023 -0.0205

**Table A15.** Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha 04}$ . Part 1.

	l = 0			
	k = 0			
i	j	0	1	2
0		2.666	$-1.94 \cdot 10^{-5}$	$-1.97 \cdot 10^{-6}$
1		-0.6859	0.0018	$4.60 \cdot 10^{-5}$
2		8.8424	0.2559	$-1.56 \cdot 10^{-5}$
	k = 1			
i	j	0	1	2
0		0.0060	$2.55 \cdot 10^{-7}$	$3.87 \cdot 10^{-8}$
1		0.0074	$-2.39 \cdot 10^{-5}$	$-9.48 \cdot 10^{-7}$
2		-0.099	$1.54 \cdot 10^{-4}$	$-6.71 \cdot 10^{-7}$
	k = 2			
i	j	0	1	2
0	-	$-1.38 \cdot 10^{-5}$	$-8.41 \cdot 10^{-10}$	$-1.85 \cdot 10^{-10}$
1		$-1.95 \cdot 10^{-5}$	$7.63 \cdot 10^{-8}$	$7.53 \cdot 10^{-9}$
2		$2.71 \cdot 10^{-4}$	$1.84 \cdot 10^{-7}$	$-2.33 \cdot 10^{-8}$

**Table A16.** Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha 04}$ . Part 2.

	l = 1			
	k = 0			
i	j	0	1	2
0	,	2.1267	$1.23 \cdot 10^{-5}$	$9.8 \cdot 10^{-6}$
1		1.3864	-0.0015	$2.40 \cdot 10^{-4}$
2		-17.4283	-0.0345	0.0021
	k = 1			
i	j	0	1	2
0		0.0141	$-9.94 \cdot 10^{-8}$	$-1.05 \cdot 10^{-7}$
1		-0.0151	$1.79 \cdot 10^{-5}$	$3.10 \cdot 10^{-6}$
2		0.1994	$1.70 \cdot 10^{-4}$	$-2.07 \cdot 10^{-5}$
	k = 2			
i	j	0	1	2
0		$3.09 \cdot 10^{-5}$	$4.44 \cdot 10^{-10}$	$5.19 \cdot 10^{-10}$
1		$3.95 \cdot 10^{-5}$	$-5.36 \cdot 10^{-8}$	$-1.11 \cdot 10^{-8}$
2		$-5.47 \cdot 10^{-4}$	$-2.60 \cdot 10^{-7}$	$7.19 \cdot 10^{-8}$
	l = 2			<del></del> _
	k = 0			
i	j	0	1	2
0		-1.4049	$5.54 \cdot 10^{-5}$	$-2.75 \cdot 10^{-5}$
1		-0.3163	-0.0053	$6.82 \cdot 10^{-4}$
2		3.7463	-0.0708	-0.0053
	k = 1			
i	j	0	1 7	2
0		0.0073	$-7.16 \cdot 10^{-7}$	$2.51 \cdot 10^{-7}$
1		0.0034	$6.46 \cdot 10^{-5}$	$-7.47 \cdot 10^{-6}$
2		-0.0437	$3.11\cdot 10^{-4}$	$5.31 \cdot 10^{-5}$
	k=2			
i	1	0	1	2
0		$-1.39 \cdot 10^{-5}$	$2.03 \cdot 10^{-9}$	$-7.94 \cdot 10^{-10}$ $2.89 \cdot 10^{-8}$
1		$-9.06 \cdot 10^{-6}$	$-1.93 \cdot 10^{-7}$	
2	1 2	$1.20 \cdot 10^{-4}$	$-3.60 \cdot 10^{-7}$	$-1.63 \cdot 10^{-7}$
	l=3			
-	k=0	0	1	
0	1	0 0058	$-5.33 \cdot 10^{-5}$	1.17 · 10 <sup>-5</sup>
1		0.0958	0.0052	$4.20 \cdot 10^{-4}$
2		-0.4260 5.5441	0.0052	0.0030
	k = 1	0.0441	0.0/79	0.0030
i	i - 1	0	1	2
0	,	9.54 · 10 <sup>-4</sup>	$6.52 \cdot 10^{-7}$	$-1.74 \cdot 10^{-7}$
1		0.0046	$-6.44 \cdot 10^{-5}$	$5.53 \cdot 10^{-6}$
2		-0.0627	$3.48 \cdot 10^{-4}$	$-3.72 \cdot 10^{-5}$
1			the state of the s	
	k = 2	-0.0027		
i		0	1	2
	k = 2	0	1	_
i		0 -3.94 · 10 <sup>-6</sup>	1 -2.02 · 10 <sup>-9</sup>	$4.79 \cdot 10^{-10}$ $-1.83 \cdot 10^{-8}$
<i>i</i> 0		0	1	_

Table A17. Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha 04}$ . Part 1.

		7			
	l = 0				
	k = 0				
i	i	0	1	2	3
0	,	13.8614	$6.38 \cdot 10^{-7}$	$1.65 \cdot 10^{-6}$	$5.63 \cdot 10^{-4}$
			$-2.88 \cdot 10^{-9}$	$-1.63 \cdot 10^{-5}$	
1		0.0114	-2.88 · 10	-1.63 · 10	-0.0055
	k = 1				
i	j	0	1	2	3
0		0.0836	0.0094	$-3.87 \cdot 10^{-9}$	$-4.18 \cdot 10^{-6}$
1		$2.36 \cdot 10^{-5}$	-0.0906	$3.61 \cdot 10^{-8}$	$4.00 \cdot 10^{-5}$
	k = 2				
i	·	0	1	2	3
	,		2.22 10-4	_	
0		$3.81 \cdot 10^{-4}$	$-2.32 \cdot 10^{-4}$	-0.0229	$9.47 \cdot 10^{-9}$
1		$1.28 \cdot 10^{-6}$	0.002545752	0.2356	$-8.87 \cdot 10^{-8}$
	l = 1				
	k = 0				
i	i - 0	0	1	2	3
	J		706 10-6	_	_
0		100.5413	$-7.96 \cdot 10^{-6}$	$-2.23 \cdot 10^{-5}$	-0.0073
1		-0.1481	$3.79 \cdot 10^{-8}$	$2.12 \cdot 10^{-4}$	0.0718
	k = 1				
i	j	0	1	2	3
0	-	-1.0365	-0.1218	$5.06 \cdot 10^{-8}$	$5.41 \cdot 10^{-5}$
1		0.0023	1.1894	$-4.69 \cdot 10^{-7}$	$5.17 \cdot 10^{-4}$
	k = 2	0.0023	1.1054	4.05 - 10	5.17 - 10
-	κ — Z				
i	1	0	1	2	3
0		0.0047	0.0030	0.2959	$-1.23 \cdot 10^{-7}$
1		$-1.70 \cdot 10^{-5}$	-0.0297	-3.0569	$1.15 \cdot 10^{-6}$
	1 = 2				
	_				
	l = 2 $k = 0$	0	1	2	3
i	_	0	1	2	3
0	_	-399.724	1 3.19 · 10 <sup>-5</sup>	2 8.45 · 10 <sup>-5</sup>	0.0277
	k = 0		$   \begin{array}{c}     1 \\     3.19 \cdot 10^{-5} \\     -1.45 \cdot 10^{-7}   \end{array} $	2 8.45 · 10 <sup>-5</sup> 8.06 · 10 <sup>-4</sup>	_
0	_	-399.724			0.0277
0	k = 0	-399.724			0.0277
0	k = 0 $j$ $k = 1$	-399.724 0.5775	$-1.45 \cdot 10^{-7}$	8.06 · 10 <sup>-4</sup>	0.0277 -0.2756
0 1	k = 0 $j$ $k = 1$	-399.724 0.5775 0 4.1384	-1.45 · 10 <sup>-7</sup>	$ \begin{array}{c} 8.06 \cdot 10^{-4} \\ 2 \\ -1.92 \cdot 10^{-7} \end{array} $	0.0277 -0.2756
0 1 i 0	k = 0 $j$ $k = 1$ $j$	-399.724 0.5775	-1.45 · 10 <sup>-7</sup> 1 0.4647	8.06 · 10 <sup>-4</sup>	$0.0277$ $-0.2756$ $3$ $2.05 \cdot 10^{-4}$
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$	-399.724 0.5775 0 4.1384 -0.0089	-1.45 · 10 <sup>-7</sup> 1 0.4647 -4.4953	$ \begin{array}{c}     2 \\     -1.92 \cdot 10^{-7} \\     1.79 \cdot 10^{-6} \end{array} $	0.0277 -0.2756 3 2.05 · 10 <sup>-4</sup> 0.0019
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$	-399.724 0.5775 0 4.1384 -0.0089	-1.45 · 10 <sup>-7</sup> 1 0.4647 -4.4953	$ \begin{array}{c} 8.06 \cdot 10^{-4} \\ \hline 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \end{array} $	0.0277 -0.2756 3 2.05 · 10 <sup>-4</sup> 0.0019
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$	-399.724 0.5775 0 4.1384 -0.0089 0 -0.0190	$ \begin{array}{r} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{r} 1 \\ -0.0115 \end{array} $	$ \begin{array}{c}     2 \\     -1.92 \cdot 10^{-7} \\     1.79 \cdot 10^{-6} \end{array} $ $ \begin{array}{c}     2 \\     -1.1213 \end{array} $	$0.0277 \\ -0.2756$ $3 \\ 2.05 \cdot 10^{-4} \\ 0.0019$ $3 \\ 4.66 \cdot 10^{-7}$
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$	-399.724 0.5775 0 4.1384 -0.0089	-1.45 · 10 <sup>-7</sup> 1 0.4647 -4.4953	$ \begin{array}{c} 8.06 \cdot 10^{-4} \\ \hline 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \end{array} $	0.0277 -0.2756 3 2.05 · 10 <sup>-4</sup> 0.0019
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$	-399.724 0.5775 0 4.1384 -0.0089 0 -0.0190	$ \begin{array}{r} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{r} 1 \\ -0.0115 \end{array} $	$ \begin{array}{c}     2 \\     -1.92 \cdot 10^{-7} \\     1.79 \cdot 10^{-6} \end{array} $ $ \begin{array}{c}     2 \\     -1.1213 \end{array} $	$0.0277 \\ -0.2756$ $3 \\ 2.05 \cdot 10^{-4} \\ 0.0019$ $3 \\ 4.66 \cdot 10^{-7}$
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$	-399.724 0.5775 0 4.1384 -0.0089 0 -0.0190	$ \begin{array}{r} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{r} 1 \\ -0.0115 \end{array} $	$ \begin{array}{c}     2 \\     -1.92 \cdot 10^{-7} \\     1.79 \cdot 10^{-6} \end{array} $ $ \begin{array}{c}     2 \\     -1.1213 \end{array} $	$0.0277 \\ -0.2756$ $3 \\ 2.05 \cdot 10^{-4} \\ 0.0019$ $3 \\ 4.66 \cdot 10^{-7}$
i 0 1 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$	-399.724 0.5775 0 4.1384 -0.0089 0 -0.0190 6.50 · 10 <sup>-5</sup>	$ \begin{array}{r} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{r} 1 \\ -0.0115 \\ 0.1128 \end{array} $	$ \begin{array}{c} 8.06 \cdot 10^{-4} \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 2 \\ -1.1213 \\ 11.6126 \end{array} $	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \end{array}$
0 1 0 1 0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$	$-399.724$ $0.5775$ 0 4.1384 $-0.0089$ 0 $-0.0190$ 6.50 · $10^{-5}$	$ \begin{array}{r} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{r} 1 \\ -0.0115 \\ 0.1128 \end{array} $	$ \begin{array}{c} 8.06 \cdot 10^{-4} \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 2 \\ -1.1213 \\ 11.6126 \end{array} $	$0.0277 \\ -0.2756$ $3 \\ 2.05 \cdot 10^{-4} \\ 0.0019$ $3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6}$
i 0 1 i 0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$	$-399.724$ $0.5775$ 0 4.1384 $-0.0089$ 0 $-0.0190$ 6.50 · $10^{-5}$	$-1.45 \cdot 10^{-7}$ 1 0.4647 -4.4953  1 -0.0115 0.1128  1 -4.49 \cdot 10^{-5}	$ \begin{array}{c} 8.06 \cdot 10^{-4} \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 2 \\ -1.1213 \\ 11.6126 \end{array} $ $ \begin{array}{c} 2 \\ 1.22 \cdot 10^{-4} \end{array} $	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline \\ 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline \\ 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \\ 3 \\ -0.0399 \\ \end{array}$
0 1 0 1 0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$	$-399.724$ $0.5775$ 0 4.1384 $-0.0089$ 0 $-0.0190$ 6.50 · $10^{-5}$	$ \begin{array}{r} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{r} 1 \\ -0.0115 \\ 0.1128 \end{array} $	$ \begin{array}{c} 8.06 \cdot 10^{-4} \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 2 \\ -1.1213 \\ 11.6126 \end{array} $	$0.0277 \\ -0.2756$ $3 \\ 2.05 \cdot 10^{-4} \\ 0.0019$ $3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6}$
i 0 1 i 0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $l = 3$ $k = 0$	$-399.724$ $0.5775$ 0 4.1384 $-0.0089$ 0 $-0.0190$ 6.50 · $10^{-5}$	$-1.45 \cdot 10^{-7}$ 1 0.4647 -4.4953  1 -0.0115 0.1128  1 -4.49 \cdot 10^{-5}	$ \begin{array}{c} 8.06 \cdot 10^{-4} \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \end{array} $ $ \begin{array}{c} 2 \\ -1.1213 \\ 11.6126 \end{array} $ $ \begin{array}{c} 2 \\ 1.22 \cdot 10^{-4} \end{array} $	$0.0277$ $-0.2756$ $3$ $2.05 \cdot 10^{-4}$ $0.0019$ $3$ $4.66 \cdot 10^{-7}$ $-4.37 \cdot 10^{-6}$ $3$ $-0.0399$
i 0 1 i 0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$	-399.724 0.5775 0 4.1384 -0.0089 0 -0.0190 6.50 · 10 <sup>-5</sup> 0 564.6376 -0.8388	$ \begin{array}{c} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{c} 1 \\ -0.0115 \\ 0.1128 \end{array} $ $ \begin{array}{c} 1 \\ -4.49 \cdot 10^{-5} \\ 2.11 \cdot 10^{-7} \end{array} $	$8.06 \cdot 10^{-4}$ $2$ $-1.92 \cdot 10^{-7}$ $1.79 \cdot 10^{-6}$ $2$ $-1.1213$ $11.6126$ $2$ $1.22 \cdot 10^{-4}$ $0.0012$	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline \\ 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline \\ 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \\ 3 \\ -0.0399 \\ 0.3993 \\ \hline \\ 3 \\ \hline \end{array}$
i 0 1 i 0 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1 i 0 i 0	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$	$\begin{array}{c} -399.724 \\ 0.5775 \\ \hline \\ 0 \\ 4.1384 \\ -0.0089 \\ \hline \\ 0 \\ -0.0190 \\ 6.50 \cdot 10^{-5} \\ \hline \\ 0 \\ 564.6376 \\ -0.8388 \\ \hline \end{array}$	$ \begin{array}{c} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{c} 1 \\ -0.0115 \\ 0.1128 \end{array} $ $ \begin{array}{c} 1 \\ -4.49 \cdot 10^{-5} \\ 2.11 \cdot 10^{-7} \end{array} $	$8.06 \cdot 10^{-4}$ $2$ $-1.92 \cdot 10^{-7}$ $1.79 \cdot 10^{-6}$ $2$ $-1.1213$ $11.6126$ $2$ $1.22 \cdot 10^{-4}$ $0.0012$	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline \\ 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline \\ 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \\ 3 \\ -0.0399 \\ 0.3993 \\ \hline \\ 3 \\ \hline \end{array}$
i 0 1 i 0 1 i 0 1 i 0 1 i 0 1 i 0 1 i 0 1 i 0 1 i 0 0 i 0 1 i 0 i 0	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$	-399.724 0.5775 0 4.1384 -0.0089 0 -0.0190 6.50 · 10 <sup>-5</sup> 0 564.6376 -0.8388	$ \begin{array}{c} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{c} 1 \\ -0.0115 \\ 0.1128 \end{array} $ $ \begin{array}{c} 1 \\ -4.49 \cdot 10^{-5} \\ 2.11 \cdot 10^{-7} \end{array} $ $ \begin{array}{c} 1 \\ -0.66699 \end{array} $	$\begin{array}{c} 8.06 \cdot 10^{-4} \\ \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \\ \\ \\ 2 \\ -1.1213 \\ 11.6126 \\ \\ \\ \\ \\ 2 \\ 1.22 \cdot 10^{-4} \\ 0.0012 \\ \\ \\ \\ \\ \\ \\ \\ \end{array}$	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline \\ 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline \\ 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \\ 3 \\ -0.0399 \\ 0.3993 \\ \hline \\ 3 \\ 2.96 \cdot 10^{-4} \\ \hline \end{array}$
i 0 1 1 i 0 1 1 i i 0 1 1 i i i i i i i	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	-399.724 0.5775 0 4.1384 -0.0089 0 -0.0190 6.50 · 10 <sup>-5</sup> 0 564.6376 -0.8388	$ \begin{array}{c} -1.45 \cdot 10^{-7} \\ 1 \\ 0.4647 \\ -4.4953 \end{array} $ $ \begin{array}{c} 1 \\ -0.0115 \\ 0.1128 \end{array} $ $ \begin{array}{c} 1 \\ -4.49 \cdot 10^{-5} \\ 2.11 \cdot 10^{-7} \end{array} $	$8.06 \cdot 10^{-4}$ $2$ $-1.92 \cdot 10^{-7}$ $1.79 \cdot 10^{-6}$ $2$ $-1.1213$ $11.6126$ $2$ $1.22 \cdot 10^{-4}$ $0.0012$	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline \\ 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline \\ 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \\ 3 \\ -0.0399 \\ 0.3993 \\ \hline \\ 3 \\ \hline \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$ $k = 2$	$-399.724 \\ 0.5775$ $0 \\ 4.1384 \\ -0.0089$ $0 \\ -0.0190 \\ 6.50 \cdot 10^{-5}$ $0 \\ 564.6376 \\ -0.8388$ $0 \\ -5.8351 \\ 0.01304$	$-1.45 \cdot 10^{-7}$ $1$ $0.4647$ $-4.4953$ $1$ $-0.0115$ $0.1128$ $1$ $-4.49 \cdot 10^{-5}$ $2.11 \cdot 10^{-7}$ $1$ $-0.66699$ $6.4770$	$\begin{array}{c} 8.06 \cdot 10^{-4} \\ \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \\ \\ 2 \\ -1.1213 \\ 11.6126 \\ \\ \\ 2 \\ 1.22 \cdot 10^{-4} \\ 0.0012 \\ \\ \\ 2 \\ 2.77 \cdot 10^{-7} \\ -2.59 \cdot 10^{-6} \\ \end{array}$	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline \\ 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline \\ 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \\ 3 \\ -0.0399 \\ 0.3993 \\ \hline \\ 3 \\ 2.96 \cdot 10^{-4} \\ -0.0028 \\ \hline \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i i 0 1 1 i i 0 1 1 i i 0 1 1 i i i i	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$	$-399.724 \\ 0.5775$ $0 \\ 4.1384 \\ -0.0089$ $0 \\ -0.0190 \\ 6.50 \cdot 10^{-5}$ $0 \\ 564.6376 \\ -0.8388$ $0 \\ -5.8351 \\ 0.01304$	$-1.45 \cdot 10^{-7}$ $1$ $0.4647$ $-4.4953$ $1$ $-0.0115$ $0.1128$ $1$ $-4.49 \cdot 10^{-5}$ $2.11 \cdot 10^{-7}$ $1$ $-0.6699$ $6.4770$ $1$	$\begin{array}{c} 8.06 \cdot 10^{-4} \\ \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \\ \\ 2 \\ -1.1213 \\ 11.6126 \\ \\ \\ 2 \\ 1.22 \cdot 10^{-4} \\ 0.0012 \\ \\ \\ 2 \\ 2.77 \cdot 10^{-7} \\ -2.59 \cdot 10^{-6} \\ \\ 2 \\ \end{array}$	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline \\ 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline \\ 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \\ 3 \\ -0.0399 \\ 0.3993 \\ \hline \\ 3 \\ 2.96 \cdot 10^{-4} \\ -0.0028 \\ \hline \\ 3 \\ \end{array}$
i 0 1 1 i 0 1 1 i 0 1 1 i 0 1 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$ $k = 0$ $j$ $k = 1$ $j$ $k = 2$	$-399.724 \\ 0.5775$ $0 \\ 4.1384 \\ -0.0089$ $0 \\ -0.0190 \\ 6.50 \cdot 10^{-5}$ $0 \\ 564.6376 \\ -0.8388$ $0 \\ -5.8351 \\ 0.01304$	$-1.45 \cdot 10^{-7}$ $1$ $0.4647$ $-4.4953$ $1$ $-0.0115$ $0.1128$ $1$ $-4.49 \cdot 10^{-5}$ $2.11 \cdot 10^{-7}$ $1$ $-0.66699$ $6.4770$	$\begin{array}{c} 8.06 \cdot 10^{-4} \\ \\ 2 \\ -1.92 \cdot 10^{-7} \\ 1.79 \cdot 10^{-6} \\ \\ 2 \\ -1.1213 \\ 11.6126 \\ \\ \\ 2 \\ 1.22 \cdot 10^{-4} \\ 0.0012 \\ \\ \\ 2 \\ 2.77 \cdot 10^{-7} \\ -2.59 \cdot 10^{-6} \\ \end{array}$	$\begin{array}{c} 0.0277 \\ -0.2756 \\ \hline \\ 3 \\ 2.05 \cdot 10^{-4} \\ 0.0019 \\ \hline \\ 3 \\ 4.66 \cdot 10^{-7} \\ -4.37 \cdot 10^{-6} \\ \hline \\ 3 \\ -0.0399 \\ 0.3993 \\ \hline \\ 3 \\ 2.96 \cdot 10^{-4} \\ -0.0028 \\ \hline \end{array}$

**Table A18.** Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha 04}$ . Part 2.

	l=4				
	k = 0				
i	j	0	1	2	3
0		-259.4750	$2.05 \cdot 10^{-5}$	$5.96 \cdot 10^{-5}$	0.0195
1		0.4048	$-1.03 \cdot 10^{-7}$	$5.69 \cdot 10^{-4}$	-0.1938
	k = 1				
i	j	0	1	2	3
0		2.6700	0.3269	$-1.36 \cdot 10^{-7}$	$1.43 \cdot 10^{-4}$
1		-0.0063	-3.1581	$1.26 \cdot 10^{-6}$	0.0014
	k = 2				
i	j	0	1	2	3
0		-0.0122	-0.0081	-0.7865	$3.28 \cdot 10^{-7}$
1		$4.62 \cdot 10^{-5}$	0.0798	8.1609	$-3.07 \cdot 10^{-6}$

**Table A19.** Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha05}$ . Part 1.

	l = 0			
	k = 0			
i	j	0	1	2
0	,	1.9115	$2.44 \cdot 10^{-6}$	$-3.24 \cdot 10^{-6}$
1		0.0036	0.0055	$2.42 \cdot 10^{-5}$
	k = 1			
i	j	0	1	2
0		0.0159	$-1.07 \cdot 10^{-6}$	$9.03 \cdot 10^{-8}$
1		$2.34 \cdot 10^{-4}$	$3.10 \cdot 10^{-4}$	$-4.34 \cdot 10^{-7}$
	k = 2			
i	j	0	1	2
0		$-7.22 \cdot 10^{-5}$	$-5.51 \cdot 10^{-8}$	$-8.08 \cdot 10^{-10}$
1		$-2.51 \cdot 10^{-8}$	$-4.28 \cdot 10^{-8}$	$2.46 \cdot 10^{-9}$
	k = 3			
i	j	0	1	2
0		$1.20 \cdot 10^{-7}$	$3.99 \cdot 10^{-12}$	$3.44 \cdot 10^{-12}$
1		$3.44 \cdot 10^{-11}$	$4.90 \cdot 10^{-11}$	$-2.28 \cdot 10^{-11}$
	l = 1			
	l = 1 $k = 0$			
i	-	0	1	2
<i>i</i> 0	k = 0	3.6916	$-1.87 \cdot 10^{-5}$	$7.44 \cdot 10^{-6}$
	k = 0	_		_
0	k = 0	3.6916	$-1.87 \cdot 10^{-5}$	$7.44 \cdot 10^{-6}$
0 1	k = 0	3.6916 -0.0057	$-1.87 \cdot 10^{-5}$ $-0.0113$	7.44 · 10 <sup>-6</sup> 1.07 · 10 <sup>-4</sup>
0 1 i 0	k = 0	3.6916 -0.0057 0 -0.0348	$ \begin{array}{r} -1.87 \cdot 10^{-5} \\ -0.0113 \end{array} $ $ \begin{array}{r} 1 \\ 2.64 \cdot 10^{-6} \end{array} $	$7.44 \cdot 10^{-6}  1.07 \cdot 10^{-4}$ $2$ $-2.24 \cdot 10^{-7}$
0 1	k = 0 $j$ $k = 1$ $j$	3.6916 -0.0057	$-1.87 \cdot 10^{-5}$ $-0.0113$	7.44 · 10 <sup>-6</sup> 1.07 · 10 <sup>-4</sup>
0 1 i 0	k = 0	3.6916 -0.0057 0 -0.0348 -1.72 · 10 <sup>-5</sup>	$ \begin{array}{r} -1.87 \cdot 10^{-5} \\ -0.0113 \end{array} $ $ \begin{array}{r} 1 \\ 2.64 \cdot 10^{-6} \end{array} $	$7.44 \cdot 10^{-6}  1.07 \cdot 10^{-4}$ $2$ $-2.24 \cdot 10^{-7}$
0 1 i 0	k = 0 $j$ $k = 1$ $j$	3.6916 -0.0057 0 -0.0348 -1.72 · 10 <sup>-5</sup>	$ \begin{array}{r} -1.87 \cdot 10^{-5} \\ -0.0113 \end{array} $ $ \begin{array}{r} 1 \\ 2.64 \cdot 10^{-6} \\ -3.18 \cdot 10^{-5} \end{array} $	$7.44 \cdot 10^{-6}  1.07 \cdot 10^{-4}$ $2  -2.24 \cdot 10^{-7}  2.72 \cdot 10^{-6}$
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$	$3.6916$ $-0.0057$ $0$ $-0.0348$ $-1.72 \cdot 10^{-5}$ $0$ $1.52 \cdot 10^{-4}$	$ \begin{array}{r} -1.87 \cdot 10^{-5} \\ -0.0113 \end{array} $ $ \begin{array}{r} 1 \\ 2.64 \cdot 10^{-6} \\ -3.18 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 1 \\ -9.05 \cdot 10^{-10} \end{array} $	$7.44 \cdot 10^{-6}$ $1.07 \cdot 10^{-4}$ $2$ $-2.24 \cdot 10^{-7}$ $2.72 \cdot 10^{-6}$ $2$ $1.64 \cdot 10^{-9}$
0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	3.6916 -0.0057 0 -0.0348 -1.72 · 10 <sup>-5</sup>	$ \begin{array}{r} -1.87 \cdot 10^{-5} \\ -0.0113 \end{array} $ $ \begin{array}{r} 1 \\ 2.64 \cdot 10^{-6} \\ -3.18 \cdot 10^{-5} \end{array} $	$7.44 \cdot 10^{-6}  1.07 \cdot 10^{-4}$ $2  -2.24 \cdot 10^{-7}  2.72 \cdot 10^{-6}$
i 0 1 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$	$3.6916$ $-0.0057$ $0$ $-0.0348$ $-1.72 \cdot 10^{-5}$ $0$ $1.52 \cdot 10^{-4}$	$ \begin{array}{r} -1.87 \cdot 10^{-5} \\ -0.0113 \end{array} $ $ \begin{array}{r} 1 \\ 2.64 \cdot 10^{-6} \\ -3.18 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 1 \\ -9.05 \cdot 10^{-10} \end{array} $	$7.44 \cdot 10^{-6}$ $1.07 \cdot 10^{-4}$ $2$ $-2.24 \cdot 10^{-7}$ $2.72 \cdot 10^{-6}$ $2$ $1.64 \cdot 10^{-9}$
i 0 1 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	$ \begin{array}{r} 3.6916 \\ -0.0057 \end{array} $ $ \begin{array}{r} 0 \\ -0.0348 \\ -1.72 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 0 \\ 1.52 \cdot 10^{-4} \\ 8.91 \cdot 10^{-8} \end{array} $	$ \begin{array}{r} -1.87 \cdot 10^{-5} \\ -0.0113 \end{array} $ $ \begin{array}{r} 1 \\ 2.64 \cdot 10^{-6} \\ -3.18 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 1 \\ -9.05 \cdot 10^{-10} \\ 1.65 \cdot 10^{-7} \end{array} $	$7.44 \cdot 10^{-6}$ $1.07 \cdot 10^{-4}$ $2$ $-2.24 \cdot 10^{-7}$ $2.72 \cdot 10^{-6}$ $2$ $1.64 \cdot 10^{-9}$ $-1.42 \cdot 10^{-8}$
i 0 1 0 1 i 0 1	k = 0 $j$ $k = 1$ $j$ $k = 2$ $j$	$ \begin{array}{r} 3.6916 \\ -0.0057 \end{array} $ $ \begin{array}{r} 0 \\ -0.0348 \\ -1.72 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 0 \\ 1.52 \cdot 10^{-4} \\ 8.91 \cdot 10^{-8} \end{array} $	$ \begin{array}{r} -1.87 \cdot 10^{-5} \\ -0.0113 \end{array} $ $ \begin{array}{r} 1 \\ 2.64 \cdot 10^{-6} \\ -3.18 \cdot 10^{-5} \end{array} $ $ \begin{array}{r} 1 \\ -9.05 \cdot 10^{-10} \end{array} $	$7.44 \cdot 10^{-6}$ $1.07 \cdot 10^{-4}$ $2$ $-2.24 \cdot 10^{-7}$ $2.72 \cdot 10^{-6}$ $2$ $1.64 \cdot 10^{-9}$

**Table A20.** Coefficients  $C_{ijkl}$ , for  $\mu_1^{\alpha05}$ . Part 2.

	l=2			
	k = 0			
i	j	0	1	2
0		-2.1129	$1.58 \cdot 10^{-5}$	$-7.75 \cdot 10^{-6}$
1		0.0016	0.0056	$8.92 \cdot 10^{-5}$
	k = 1			
i	j	0	1	2
0		0.0187	$-1.51 \cdot 10^{-6}$	$1.96 \cdot 10^{-7}$
1		$1.35 \cdot 10^{-5}$	$2.65 \cdot 10^{-5}$	$-2.62 \cdot 10^{-6}$
	k = 2			
i	j	0	1	2
0		$-7.90 \cdot 10^{-5}$	$7.19 \cdot 10^{-10}$	$-1.62 \cdot 10^{-9}$
1		$-6.95 \cdot 10^{-8}$	$-1.36 \cdot 10^{-7}$	$1.62 \cdot 10^{-8}$
	k = 3			
i	j	0	1	2
0		$1.26 \cdot 10^{-7}$	$-9.89 \cdot 10^{-13}$	$3.65 \cdot 10^{-12}$
1		$1.22 \cdot 10^{-10}$	$2.37 \cdot 10^{-10}$	$-3.77 \cdot 10^{-11}$

**Table A21.** Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha 05}$ . Part 1.

	l = 0				
	k = 0				
i	j	0	1	2	3
0		12.0054	$9.50 \cdot 10^{-4}$	-0.0056	0.0086
1		-6.3417	-0.0582	0.4423	-0.8043
2		80.1816	0.8664	-4.1276	7.9841
	k = 1				
i	j	0	1	2	3
0		0.0650	$-1.33 \cdot 10^{-5}$	$7.40 \cdot 10^{-5}$	$1.08 \cdot 10^{-6}$
1		0.0689	$7.05 \cdot 10^{-4}$	-0.0051	0.0099
2		0.9145	-0.0071	0.0484	-0.0941
	k = 2				
i	j	0	1	2	3
0		$1.42 \cdot 10^{-4}$	$4.09 \cdot 10^{-8}$	$-2.40 \cdot 10^{-7}$	$3.17 \cdot 10^{-7}$
1		$1.80 \cdot 10^{-4}$	$-2.09 \cdot 10^{-6}$	$1.53 \cdot 10^{-5}$	$-2.79 \cdot 10^{-5}$
2		0.0025	0.0056	$1.94 \cdot 10^{-5}$	$2.59 \cdot 10^{-4}$
	l = 1				
	l = 1 $k = 0$				
i		0	1	2	3
<i>i</i> 0		0 124.1635	1 -0.0123	0.0723	3 -0.1113
		124.1635 80.5328	-0.0123 0.7664	_	_
0	k = 0 $j$	124.1635	-0.0123	0.0723	-0.1113
0		124.1635 80.5328	-0.0123 0.7664	0.0723 -5.7424	-0.1113 10.3579 -108.1147
0	k = 0 $j$	124.1635 80.5328 -1016.3465	-0.0123 0.7664 -8.9448	0.0723 -5.7424 55.1366	-0.1113 10.3579 -108.1147
0 1 2 i 0	k = 0 $j$	124.1635 80.5328 -1016.3465 0 -0.8140	-0.0123 0.7664 -8.9448 1 1.64 · 10 <sup>-4</sup>	0.0723 -5.7424 55.1366 2 8.93 · 10 <sup>-4</sup>	-0.1113 10.3579 -108.1147 3 0.0012
0 1 2 i 0 1	k = 0 $j$	124.1635 80.5328 -1016.3465 0 -0.8140 -0.8760	$-0.0123$ $0.7664$ $-8.9448$ 1 $1.64 \cdot 10^{-4}$ $-0.0093$	0.0723 -5.7424 55.1366 2 8.93 · 10 <sup>-4</sup> 0.0678	-0.1113 10.3579 -108.1147 3 0.0012 -0.1226
0 1 2 i 0	k = 0 $j$ $k = 1$ $j$	124.1635 80.5328 -1016.3465 0 -0.8140	-0.0123 0.7664 -8.9448 1 1.64 · 10 <sup>-4</sup>	0.0723 -5.7424 55.1366 2 8.93 · 10 <sup>-4</sup>	-0.1113 10.3579 -108.1147 3 0.0012
i 0 1 2 i 0 1 2	k = 0 $j$	124.1635 80.5328 -1016.3465 0 -0.8140 -0.8760	$-0.0123$ $0.7664$ $-8.9448$ 1 $1.64 \cdot 10^{-4}$ $-0.0093$	0.0723 -5.7424 55.1366 2 8.93 · 10 <sup>-4</sup> 0.0678 -0.6466	-0.1113 10.3579 -108.1147 3 0.0012 -0.1226 1.2521
0 1 2 i 0 1	k = 0 $j$ $k = 1$ $j$	124.1635 80.5328 -1016.3465 0 -0.8140 -0.8760 11.6135	-0.0123 0.7664 -8.9448 1 1.64 · 10 <sup>-4</sup> -0.0093 0.0947	0.0723 -5.7424 55.1366 2 8.93 · 10 <sup>-4</sup> 0.0678 -0.6466	-0.1113 10.3579 -108.1147 3 0.0012 -0.1226 1.2521
i 0 1 2 i 0 1 2	k = 0 $j$ $k = 1$ $j$	124.1635 80.5328 -1016.3465 0 -0.8140 -0.8760 11.6135 0 0.0018	$ \begin{array}{r} -0.0123 \\ 0.7664 \\ -8.9448 \end{array} $ $ \begin{array}{r} 1 \\ 1.64 \cdot 10^{-4} \\ -0.0093 \\ 0.0947 \end{array} $ $ \begin{array}{r} 1 \\ -4.75 \cdot 10^{-7} \end{array} $	$0.0723$ $-5.7424$ $55.1366$ $2$ $8.93 \cdot 10^{-4}$ $0.0678$ $-0.6466$ $2$ $2$ $2.67 \cdot 10^{-6}$	$ \begin{array}{r} -0.1113 \\ 10.3579 \\ -108.1147 \\ \hline \\ 3 \\ 0.0012 \\ -0.1226 \\ 1.2521 \\ \hline \\ 3 \\ -3.73 \cdot 10^{-6} \\ \end{array} $
i 0 1 0 1 2	k = 0 $j$ $k = 1$ $j$	124.1635 80.5328 -1016.3465 0 -0.8140 -0.8760 11.6135	-0.0123 0.7664 -8.9448 1 1.64 · 10 <sup>-4</sup> -0.0093 0.0947	0.0723 -5.7424 55.1366 2 8.93 · 10 <sup>-4</sup> 0.0678 -0.6466	-0.1113 10.3579 -108.1147 3 0.0012 -0.1226 1.2521

**Table A22.** Coefficients  $C_{ijkl}$ , for  $\mu_2^{\alpha05}$ . Part 2.

		-,			
	l=2				
	k = 0				
i	j	0	1	2	3
0	,	-495.0959	0.0458	-0.26725	0.3911
1		-324.7789	-2.9795	21.93103	-40.4121
2		4098.8014	35,28079	-219.2802	415.4119
	k = 1	4070.0014	00.2007	217,2002	410,4117
i	i - 1	0	1	2	3
	,	3,2625	6.10 · 10 <sup>-4</sup>	0.0032	-0.0045
0					
1		3.5329	0.0355	-0.2582	0.47005
2		-46.8360	-0.3705	2.5065	-4.8331
	k = 2				
i	j	0	1	2	3
0		-0.0072	$1.76 \cdot 10^{-6}$	$-8.80 \cdot 10^{-6}$	$1.09 \cdot 10^{-5}$
1		-0.0092	$10.2 \cdot 10^{-4}$	$7.32 \cdot 10^{-4}$	-0.0013
2		0.1284	$9.87 \cdot 10^{-4}$	-0.0068	0.0137
_	1 = 3				
	k=0				
i	i - 0	0	1	2	3
0	,	696.85017	-0.0654	0.38179	-0.52440
1		450.5448	4.3349	-32.8525	60.2955
2		-5686.4635	-52.4324	324.1271	-627.8891
	k = 1				
i	j	0	1	2	3
0		-4.5728	$8.67 \cdot 10^{-4}$	-0.0045	0.0052
1		-4.9009	-0.0518	0.38483	-0.7094
2		64.9760	0.5481	-3.7463	7.2181
	k = 2				
i	j	0	1	2	3
0	,	0.0100	$-2.61 \cdot 10^{-6}$	$1.31 \cdot 10^{-5}$	$-1.33 \cdot 10^{-5}$
1		0.0128	$1.46 \cdot 10^{-4}$	-0.0011	0.0019
2		-0.1782	-0.0015	0.0103	-0.0198
_	1 4	0.17 02	0.0010	0.0400	0.0170
	l=4				
	k = 0				
i	j	0	1	2	3
0		-318.2453	0.0324	-0.1804	-0.1113
1		-200.5712	-2.1563	16.0854	-30.1061
2		2531.76485	25.8609	-161.5118	314.4304
	k = 1				
i	j	0	1	2	3
0		2.0717	$4.15 \cdot 10^{-4}$	0.0018	-0.0028
1		2.1818	0.0253	-0.1894	0.3343
2		-28.9277	-0.2778	1.8622	-3.5873
	k = 2				
i	j	0	1	2	3
0	,	-0.0045	$1.24 \cdot 10^{-6}$	$-5.30 \cdot 10^{-6}$	$6.16 \cdot 10^{-6}$
1		-0.0057	$-7.28 \cdot 10^{-5}$	$5.36 \cdot 10^{-6}$	$9.55 \cdot 10^{-4}$
2		0.0793	$7.20 \cdot 10^{-4}$	-0.0051	
		0.0/93	7.20 - 10 -	-0.0031	0.0097