

COMPUTING THE GENERATING FUNCTION OF A
COINVARIANTS MAP

BY

JESSE FROHLICH

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ABSTRACT

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A well-known source of strong link invariants comes from quantum groups. Typically, one uses a representation of a quantum group to build a computable invariant, though these computations require exponential time in the number of crossings. Recent work has allowed for direct and efficient computations within the quantum groups themselves, through the use of perturbed Gaussian differential operators. This thesis introduces and explores a partial expansion of the tangle-theoretic computations performed by Bar-Natan and van der Veen [BNvdV] in the quantum group $\mathcal{U}(\mathfrak{sl}_{2+}^0)$ to its space of coinvariants, providing an extension of this computational method from open tangles to links.

*To someone,
who did something nice.*

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ACRONYMS

RVT Rotational Virtual Tangle

RVK Rotational Virtual Knot

RVL Rotational Virtual Link

MVA Multivariable Alexander polynomial

CONTENTS

1	Tensor Products and Monoidal Categories	1
1.1	Tensor product notation	1
1.2	Meta-objects	3
1.3	Algebraic definitions	5
2	Perturbed Gaußians	10
2.1	Algebraic definitions	10
2.2	Pure tangles as a meta-Hopf algebra	11
2.3	Rotational tangle invariants from a ribbon Hopf algebra . .	16
3	Constructing the trace	20
3.1	Extending a pure tangle invariant to links and general tangles	20
3.2	The coinvariants of U	21
4	Conclusions	27
4.1	Comparison with the multivariable Alexander polynomial .	27
4.2	Further work	28
A	Code	29
A.1	Implementation of the invariant Z	29
A.2	Implementation of the trace	40
A.3	Implementation of rotation number algorithm	51
B	Table of values	62

TENSOR PRODUCTS AND MONOIDAL CATEGORIES

1.1 TENSOR PRODUCT NOTATION

In what follows, we will extensively use tensor products, and more generally monoidal categories. As all our examples will involve trivial associators, it will be more convenient to label tensor factors with elements of a finite set rather than by their position in a linear order. We will put the label as a subscript on each factor. For a finite set $S = \{i_1, \dots, i_n\}$:

$$V_S := V^{\otimes S} := V_{i_1} \otimes V_{i_2} \otimes \dots \otimes V_{i_n} \cong V^{\otimes n} \quad (1.1)$$

In particular, $V_\emptyset = \mathbb{k}$ is the base field of V . Pure tensors in this notation will be written with subscripts and the \otimes will be suppressed: $(v_1)_{i_1} (v_2)_{i_2} \dots (v_n)_{i_n} \in V^{\otimes \{i_1, \dots, i_n\}}$. Observe that with labelled factors, the order the factors are written in does not matter: In $V^{\otimes \{1,2\}}$, we have $x_1 y_2 = y_2 x_1$.

Next, given a map $T: V^{\otimes \{j_1, \dots, j_s\}} \rightarrow V^{\otimes \{i_1, \dots, i_r\}}$ between tensor powers of V , we denote T by $T_{i_1, \dots, i_r}^{j_1, \dots, j_s}$. It is important to note that the order of the indices in this notation matters for nonsymmetric tensors. Furthermore, this same symbol will denote extensions by the identity to any arbitrary finite set S disjoint from the j_k 's and the i_k 's:

$$\begin{aligned} T_{i_1, \dots, i_r}^{j_1, \dots, j_s} : V^{\otimes \{j_1, \dots, j_s\} \sqcup S} &\rightarrow V^{\otimes \{i_1, \dots, i_r\} \sqcup S} \\ v_{j_1, \dots, j_s} \otimes w_S &\mapsto (T v_{j_1, \dots, j_s}) \otimes w_S \end{aligned} \quad (1.2)$$

Remark 1.1. There are three special cases with this notation:

- We denote (multi)linear functionals with only superscripts: $\phi: V^{\otimes S} \rightarrow \mathbb{k} \cong V^{\otimes \emptyset}$ will be written ϕ^S (with a linear order on S).

- Elements $v \in V^{\otimes S}$ will be interpreted as a map $v: \mathbb{k} \rightarrow V^{\otimes S}$ written with a (linearly ordered) subscript: v_S to denote which factors the element lives in. Following equation (1.2), this notation allows us to embed v into higher tensor powers: $v_S \in V^{\otimes S \sqcup X}$ for a X finite set.
- When only one index is present in a subscript or superscript, and its omission does not introduce an ambiguity in an expression, then it may be omitted to improve readability. For instance, a map $\phi: V^{\otimes\{1,2\}} \rightarrow V^{\otimes\{3\}}$ may be written as $\phi^{1,2}$, with the canonical isomorphism $V \cong V^{\otimes\{*\}}$ being suppressed.

Notation extension to non-Cartesian monoidal categories

Some of the monoidal categories we will work with are not Cartesian. (In fact, some of our objects will be neither monoidal nor categories, though this generalization is described in section 1.2.) Additionally, the ones we will work with are best suited to their factors being labelled by finite sets. For the purpose of representing them clearly, we introduce a notation put forth by Bar-Natan: consider an object A in a monoidal category \mathcal{C} . Then:

- Monoidal powers of A are indexed by finite sets S , and are to be written A_S .
- Homsets in \mathcal{C} between monoidal powers of A are indexed by pairs of finite sets D, C . Morphisms in these homsets will be denoted by $\phi_C^D: A_D \rightarrow A_C$.
- Composition of morphisms $\phi_{C_1}^{D_1}$ and $\psi_{C_2}^{D_2}$ is defined when $D_2 = C_1$, and is written with the following concatenation operator: $\phi_{C_1}^{D_1} \parallel \psi_{C_2}^{D_2}: \mathcal{C}_{D_1} \rightarrow \mathcal{C}_{C_2}$.
- The monoidal product $\otimes: \mathcal{C} \times \mathcal{C} \rightarrow \mathcal{C}$ satisfies $A_S \otimes A_T = A_{S \sqcup T}$. Given morphisms $\phi_{C_1}^{D_1}$ and $\psi_{C_2}^{D_2}$ such that $D_1 \cap D_2 = \emptyset = C_1 \cap C_2$, we have a product morphism $\phi \otimes \psi: \mathcal{C}_{D_1 \sqcup D_2} \rightarrow \mathcal{C}_{C_1 \sqcup C_2}$.^{†1} We will write such products with concatenation: $\phi_{C_1}^{D_1} \psi_{C_2}^{D_2}$.

Remark 1.2. Given a morphism ϕ_C^D and a finite set S , there is an extension of ϕ_C^D to a morphism $\bar{\phi}: \mathcal{C}_{D \sqcup S} \rightarrow \mathcal{C}_{C \sqcup S}$ given by $\phi_C^D \text{id}_S^S$. To make expressions

^{†1} This encodes the data of a strict monoidal category with the linear order of factors replaced with indices from a finite set.

easier to read, in this paper we will introduce this extension implicitly in the following context: given morphisms $\phi_{C_1}^{D_1}$ and $\psi_{C_2}^{D_2}$ such that $D_2 \subseteq C_1$ and $C_2 \cap (C_1 \setminus D_2) = \emptyset = D_1 \cap (D_2 \setminus C_1)$, we define:

$$\phi_{C_1}^{D_1} // \psi_{C_2}^{D_2} := (\text{id}_{D_2 \setminus C_1}^{D_2 \setminus C_1} \phi_{C_1}^{D_1}) // (\psi_{C_2}^{D_2} \text{id}_{C_1 \setminus D_2}^{C_1 \setminus D_2}) \quad (1.3)$$

The two extreme cases of this definition are:

- When $C_1 \cap D_2 = \emptyset$, the bifactoriality of \otimes reduces equation (1.3) to the monoidal product $\phi_{C_1}^{D_1} \psi_{C_2}^{D_2}$ (here written with concatenation).
- When $C_1 = D_2$, equation (1.3) becomes the composition $\phi_{C_1}^{D_1} // \psi_{C_2}^{D_2}$ exactly.

Remark 1.3. While the $//$ operator is associative, care must be taken that the compositions are well-defined in the presence of duplicated indices. While it is sufficient for all the finite sets in a composition to be pairwise disjoint, this condition will prove too restrictive for clear communication of formulae.

1.2 META-OBJECTS

The notion of an “-object” in a category (for example, a monoid object or an algebra object) is a useful way of generalizing an algebraic structure to a different mathematical context. For instance, in the category of topological spaces, one is able to talk about groups whose operations are continuous. However, this notion only makes sense when we are working with a Cartesian category (or more generally a monoidal category).

One of the main characters of this story does not fit into this mould, so we will introduce a generalization of this notion by way of example:

Consider a group object. Traditionally, the data of a group object are the following:

- An object G in a category \mathcal{C} .
- A morphism $m: G \times G \rightarrow G$ called “multiplication”.
- A “unit” morphism $\eta: \{*\} \rightarrow G$.^{†2}
- An “inversion” morphism $S: G \rightarrow G$.

^{†2} When $\mathcal{C} = \mathbf{Set}$, we usually write the unit as an element $e = \eta(*) \in G$

- A collection of relations between the morphisms, written as equalities of morphisms between Cartesian powers of G . For example, associativity may be written:

$$\begin{array}{ccc}
 G \times G \times G & \xrightarrow{m \times \text{id}} & G \times G \\
 \text{id} \times m \downarrow & & \downarrow m \\
 G \times G & \xrightarrow{m} & G
 \end{array} \tag{1.4}$$

Further, the data of these relations is extended to higher powers of G by acting on other components by the identity:

$$\begin{array}{ccc}
 G^{n+3} & \xrightarrow{m \times \text{id}^{n+1}} & G^{n+2} \\
 \text{id} \times m \times \text{id}^n \downarrow & & \downarrow m \times \text{id}^n \\
 G^{n+2} & \xrightarrow{m \times \text{id}^n} & G^{n+1}
 \end{array} \tag{1.5}$$

Consider now two changes in how we package these data:

1. Instead of linear orders of factors $G \times \cdots \times G$, we will index factors by a finite set S , writing the power G_S in the style of equation (1.1).
2. Instead of implicitly including extensions of morphisms to higher powers by the identity, we will parametrize the extension by finite sets. For example, multiplication $m_k^{ij}: G_{\{i,j\}} \rightarrow G_{\{k\}}$ ^{†3} will be viewed as a family of maps $m_k^{ij}[S]: G_{\{i,j\} \sqcup S} \rightarrow G_{\{k\} \sqcup S}$, each of which must satisfy the relations of the group object.

This way of packaging the data leads us to a direct generalization: a meta-group-object in \mathcal{C} is a collection of objects $G_S \in \mathcal{C}$ indexed by finite sets S , together with

- A family of objects $G_S \in \mathcal{C}$, indexed over finite sets S .
- A family of morphisms $m_k^{ij}[S]: G_{\{i,j\} \sqcup S} \rightarrow G_{\{k\} \sqcup S}$ called “multiplication”.
- A family of “unit” morphisms $\eta_i[S]: G_S \rightarrow G_{\{i\} \sqcup S}$.
- A family of “inversion” morphisms $S_j^i[S]: G_{\{i\} \sqcup S} \rightarrow G_{\{j\} \sqcup S}$.

^{†3} This notation is defined in equation (1.1), and is here extended from tensor products to Cartesian products.

- A collection of relations between the morphisms, written as equalities of morphisms between the G_X 's. For example, associativity may be written:

$$\begin{array}{ccc}
 G_{\{1,2,3\} \sqcup S} & \xrightarrow{m_1^{1,2}[S \sqcup \{3\}]} & G_{\{1,3\} \sqcup S} \\
 m_2^{2,3}[S \sqcup \{1\}] \downarrow & & \downarrow m_1^{1,3}[S] \\
 G_{\{1,2\} \sqcup S} & \xrightarrow{m_1^{1,2}[S]} & G_{\{1\} \sqcup S}
 \end{array} \quad (1.6)$$

We obtain traditional objects by further requiring that each family of morphisms $\phi[S]$ satisfy $\phi[S] = \phi[\emptyset] \times \text{id}_S$.

Several examples of well-known algebraic structures presented as meta-objects are given in section 1.3.

1.3 ALGEBRAIC DEFINITIONS

We now introduce the algebraic structures which will be used to define the tangle invariant. These definitions follow those given by Majid in [Maj], although the ones presented below are given in a way that their corresponding meta-structure is readily visible.

Definition 1.4 (algebra). An algebra is an object $A \in \mathcal{C}$ together with an associative multiplication $m_k^{i,j}: A_{\{i,j\}} \rightarrow A_{\{k\}}$ (satisfying equation (1.7)), and a unit $\eta_i: A_\emptyset \rightarrow A_{\{i\}}$ satisfying equation (1.8).^{†4}

$$\begin{array}{ccc}
 A_{\{1,2,3\}} & \xrightarrow{m_1^{1,2}} & A_{\{1,3\}} \\
 m_2^{2,3} \downarrow & & \downarrow m_1^{1,3} \\
 A_{\{1,2\}} & \xrightarrow{m_1^{1,2}} & A_{\{1\}}
 \end{array} \quad (1.7)$$

$$\begin{array}{ccc}
 A_{\{1\}} & \xrightarrow{\eta_2} & A_{\{1,2\}} \\
 \searrow \text{id} & & \downarrow m_1^{2,1} \\
 & & A_{\{1\}}
 \end{array} \quad (1.8)$$

Remark 1.5. From now on, we will denote repeated multiplication as in equation (1.7) by using extra indices. For instance: $m_\ell^{i,j,k} := m_r^{i,j} \parallel m_\ell^{r,k} = m_s^{j,k} \parallel m_\ell^{i,s}$.

There is also the dual notion of a coalgebra, which arises by reversing the arrows in equations (1.7) and (1.8):

^{†4} When $\mathcal{C} = \mathbf{Vect}$, this becomes the more familiar definition of an algebra. When A_\emptyset is a field, and it is more common to think of the unit as an element $1 \in A$. The unit map is then defined by linearly extending the assignment $\eta_i(1) = 1_i$.

Definition 1.6 (coalgebra). A colagebra is a vector space C over a field \mathbb{k} with a comultiplication $\Delta: C \rightarrow C \otimes C$ which is coassociative (1.9) and a counit, which is a map $\epsilon: A \rightarrow k$ satisfying (1.10).

$$\begin{array}{ccc} C_{\{1,2,3\}} & \xleftarrow{\Delta_{1,2}^1} & C_{\{2,3\}} \\ \Delta_{2,3}^2 \uparrow & & \uparrow \Delta_{1,3}^1 \\ C_{\{1,2\}} & \xleftarrow{\Delta_{1,2}^1} & C_{\{1\}} \end{array} \quad (1.9)$$

$$\begin{array}{ccc} C_{\{1\}} & \xleftarrow{\epsilon^2} & C_{\{1,2\}} \\ \swarrow \text{id} & \Delta_{1,2}^1 \uparrow \uparrow \Delta_{2,1}^1 & \\ & C_{\{1\}} & \end{array} \quad (1.10)$$

Remark 1.7. From now on, we will denote repeated comultiplication as in equation (1.9) by using extra indices. For instance: $\Delta_{j,k,\ell}^i := \Delta_{j,r}^i \parallel \Delta_{k,\ell}^r = \Delta_{s,\ell}^i \parallel \Delta_{j,j}^s$.

If a vector space B satisfies both definitions of an algebra and a coalgebra, we introduce a definition for when the structures are compatible with each other in the following way:

Definition 1.8 (bialgebra). A bialgebra is an algebra (B, m, η) and a coalgebra (B, Δ, ϵ) , such that Δ and ϵ are algebra morphisms.^{†5}

$$\begin{array}{ccc} B_{\{1,3\}} & \xrightarrow{m_1^{1,3}} & B_{\{1\}} \\ \downarrow \Delta_{1,2}^1 \parallel \Delta_{3,4}^3 & & \downarrow \Delta_{1,2}^1 \\ B_{\{1,2,3,4\}} & \xrightarrow{m_1^{1,3} \parallel m_2^{2,4}} & B_{\{1,2\}} \end{array} \quad (1.11)$$

$$\begin{array}{ccc} B_{\{1,2\}} & \xrightarrow{m_1^{1,2}} & B_{\{1\}} \\ \searrow \epsilon^1 \parallel \epsilon^2 & & \swarrow \epsilon^1 \\ & B_{\emptyset} & \end{array} \quad (1.13)$$

$$\begin{array}{ccc} & B_{\{1\}} & \\ \eta_1 \nearrow & \downarrow \Delta_{1,2}^1 & \\ B_{\emptyset} & & B_{\{1,2\}} \\ \eta_1 \parallel \eta_2 \searrow & & \end{array} \quad (1.12)$$

$$\begin{array}{ccc} B_{\emptyset} & \xrightarrow{\eta_1} & B_{\{1\}} \\ \searrow \text{id} & & \downarrow \epsilon^1 \\ & B_{\emptyset} & \end{array} \quad (1.14)$$

Remark 1.9. The conditions for Δ being an algebra morphism are presented in equations (1.11) and (1.12), while those for ϵ are in equations (1.13) and (1.14).^{†6} Observing invariance under arrow reversal, it may not come

^{†5} $B^{\otimes n}$ inherits a (co)algebra structure from B , given by component-wise operations. For instance, in the case of multiplication, this means $m((a_1 \otimes b_1) \otimes (a_2 \otimes b_2)) = a_1 a_2 \otimes b_1 b_2$. The bialgebra structure on B_{\emptyset} is given by $m = \eta = \Delta = \epsilon = \text{id}$.

^{†6} While notation explicitly naming each tensor factor appears cumbersome in these diagrams, it will prove invaluable later when used on tangle diagrams, so we leave it as is for the sake of consistency.

as a surprise that equations (1.11) and (1.13) also are the conditions for m being a coalgebra morphism, and equations (1.12) and (1.14) tell us that η is as well.

Finally, we introduce the invertibility condition we would expect on a quantum group.

Definition 1.10 (Hopf algebra). A Hopf algebra is a bialgebra H together with a map $S: H \rightarrow H$ called the antipode, which satisfies for all $h \in H$, $\Delta_{1,2}^1 \parallel S_1^1 \parallel m_1^{1,2} = \epsilon^1 \parallel \eta_1 = \Delta_{1,2}^1 \parallel S_2^2 \parallel m_1^{1,2}$. As a commutative diagram, this looks like equation (1.15)

$$\begin{array}{ccccc}
 H_{\{1\}} & \xrightarrow{\epsilon^1} & H_{\emptyset} & \xrightarrow{\eta_1} & H_{\{1\}} \\
 & \searrow \Delta_{1,2}^1 & & & \nearrow m_1^{1,2} \\
 & & H_{\{1,2\}} & \xrightleftharpoons[S_1^1]{S_2^2} & H_{\{1,2\}}
 \end{array} \tag{1.15}$$

In order to do knot theory, we need an algebraic way to represent a crossing of two strands. This is accomplished by the so-called \mathcal{R} -matrix:

Definition 1.11 (quasitriangular Hopf algebra). A quasitriangular Hopf algebra is a Hopf algebra H , together with an invertible element $\mathcal{R} \in H \otimes H$, called the \mathcal{R} -matrix, which satisfies the following properties: (we will denote the inverse by $\overline{\mathcal{R}}$)

$$\mathcal{R}_{12} \parallel \Delta_{23}^2 = \mathcal{R}_{a2} \mathcal{R}_{b3} \parallel m_1^{ab} \tag{1.16}$$

$$\mathcal{R}_{13} \parallel \Delta_{12}^1 = \mathcal{R}_{1b} \mathcal{R}_{2a} \parallel m_3^{ab} \tag{1.17}$$

$$\Delta_{21}^1 = \Delta_{12}^1 \mathcal{R}_{1_i, 2_i} \overline{\mathcal{R}}_{1_f, 2_f} \parallel m_1^{1_i, 1, 1_f} \parallel m_2^{2_i, 2, 2_f} \tag{1.18}$$

Definition 1.12 (Drinfeld element). In a quasitriangular Hopf algebra H , the Drinfeld element, $u \in H$ is given by:

$$u := \mathcal{R}_{21} \parallel S_2^2 \parallel m^{12} \tag{1.19}$$

Definition 1.13 (monodromy). The monodromy $Q_{12} := \mathcal{R}_{12} \mathcal{R}_{34} \parallel m_1^{14} \parallel m_2^{23}$. It's inverse will be denoted $\overline{Q} = \overline{\mathcal{R}}_{12} \overline{\mathcal{R}}_{34} \parallel m_1^{14} \parallel m_2^{23}$.

Lemma 1.14. *The Drinfeld element u satisfies for all $h \in H$:*

$$u_1 h_2 u_3 \parallel m^{1,2,3} = h \parallel S \parallel S \quad (1.20)$$

$$u \parallel \Delta_{12} = u_1 u_2 \overline{Q}_{34} \parallel m_1^{13} \parallel m_2^{24} \quad (1.21)$$

Proof. See [Maj] or [ES] for more details on this standard result. Note that the proof does not rely on the additive structure of the Hopf algebra, which allows us to extend this result to the realm of meta-Hopf algebras. \square

Definition 1.15 (ribbon Hopf algebra). A quasitriangular Hopf algebra H is called ribbon if it has an element $\nu \in Z(H)$ such that:

$$\nu_1 \nu_2 \parallel m^{12} = u_1 u_2 \parallel S_2^2 \parallel m^{12} \quad (1.22)$$

$$\nu_1 \parallel \Delta_{12}^1 = \nu_1 \nu_2 \parallel \overline{Q}_{34} \parallel m_1^{13} \parallel m_2^{24} \quad (1.23)$$

$$\nu \parallel S = \nu \quad (1.24)$$

$$\nu \parallel \epsilon = \eta \parallel \epsilon = 1 \quad (1.25)$$

Definition 1.16 (distinguished grouplike element (spinner)). A distinguished grouplike element (or spinner) in a quasitriangular Hopf algebra H is an invertible element $C \in H$ (with inverse \overline{C}) such that for all $x \in H$:

$$C_1 \nu_2 C_3 \parallel S_2^2 \parallel m^{123} = \nu \quad (1.26)$$

$$C_1 \parallel \Delta_{12}^1 = C_1 C_2 \quad (1.27)$$

$$C \parallel S = \overline{C} \quad (1.28)$$

$$C_1 x_2 \overline{C}_3 \parallel m^{1,2,3} = x \parallel S \parallel S \quad (1.29)$$

$$C \parallel \epsilon = \eta \parallel \epsilon = 1 \quad (1.30)$$

Lemma 1.17 (spinners and ribbon Hopf algebras). *If a Hopf algebra has either a ribbon element ν or a spinner C , then it must have the other as well, given by the formula: $C_1 \nu_2 \parallel m^{12} = u$.*

Both the ribbon and the spinner element relevant have topological interpretations in the context of tangles, which are outlined in section 2.2.

Remark 1.18. By insisting that the ends of all strands in the diagram point up, and that only upward-pointing portions of strands participate in crossings, we may replace the (co)evaluation operations with the “spinner”

element (also called the distinguished grouplike element), derived from the ribbon element and the Drinfeld element.

In [BNvdV], Bar-Natan and Van der Veen define an invariant of tangles valued in tensor powers of a certain Hopf algebra U . Their work expresses the algebra operations as perturbed Gaussian generating functions so as to produce a strong polynomial-time tangle invariant.

PERTURBED GAUSSIANS

We now summarize the work of Bar Natan and van der Veen in [BNvdV], which develops a universal knot invariant using perturbed Gaussians.

2.1 ALGEBRAIC DEFINITIONS

Defining the algebra

Here we define the Hopf algebra U , its quasitriangular structure, and its ribbon structure:

We begin by defining the algebra U . Denote by \mathfrak{a} the non-commutative 2-dimensional cocommutative Lie bialgebra spanned by a and x with relation $[a, x] = x$. (This is also a Borel subalgebra of \mathfrak{sl}_2 .)

Next, we use the Drinfeld double construction (outlined in [ES]) to obtain a quasitriangular Lie algebra \mathfrak{g} . As a vector space, $\mathfrak{g} = \mathfrak{a} \oplus \mathfrak{a}^*$. Given $u \in \mathfrak{a}$ and $v \in \mathfrak{a}^*$, we have $[u, v]_{\mathfrak{g}} := \text{ad}_u^*(v) - \text{ad}_v^*(u)$, extended bilinearly and anticommutatively to all of \mathfrak{g} . Then the algebra U is defined to be the universal enveloping algebra $\mathfrak{U}(\mathfrak{g})$.

Remark 2.1. For convenience, we define $b := a^* \in \mathfrak{a}^*$ and $y := x^* \in \mathfrak{a}^*$, so that

$$U = \left\langle y, b, a, x \mid [a, x] = x, [a, y] = -y, [x, y] = b, [b, \cdot] = 0 \right\rangle \quad (2.1)$$

as an algebra.

Expressing morphisms as generating functions

When defining a morphism-valued tangle invariant, one needs a compact way of encoding the morphism. In [BNvdV] this is achieved through the use of generating functions, whose definition we reproduce below:

For A and B finite sets, consider the set $\text{hom}(\mathbb{Q}[z_A], \mathbb{Q}[z_B])$ of linear maps between multivariate polynomial rings. Such a map is determined by its values on the monomials $z_A^{\mathbf{n}}$ for each multi-index $\mathbf{n} \in \mathbb{N}^A$.

Definition 2.2 (Exponential generating function). The exponential generating function of a map $\Phi: \mathbb{Q}[z_A] \rightarrow \mathbb{Q}[z_B]$ between polynomial spaces is

$$\mathcal{G}(\Phi) := \sum_{\mathbf{n} \in \mathbb{N}^A} \frac{\Phi(z_A^{\mathbf{n}})}{\mathbf{n}!} \zeta_A^{\mathbf{n}} \in \mathbb{Q}[z_B][[\zeta_A]] \quad (2.2)$$

Remark 2.3. Extending the definition of Φ to $\mathbb{Q}[z_B][[\zeta_A]]$ by the extending scalars to $\mathbb{Q}[[\zeta_A]]$ gives us an equivalent formulation:

$$\mathcal{G}(\Phi) = \Phi \left(\sum_{\mathbf{n} \in \mathbb{N}^A} \frac{(z_A \zeta_A)^{\mathbf{n}}}{\mathbf{n}!} \right) = \Phi(\mathcal{G}(\text{id}_{\mathbb{Q}[z_A]})) \quad (2.3)$$

By the PBW theorem, we know that U is isomorphic as a vector space to the polynomial ring $\mathbb{Q}[y, b, a, x]$ by choosing an ordering of the generators (following [BNvdV], we use (y, b, a, x)):

$$\begin{aligned} \mathbb{O}: \mathbb{Q}[y, b, a, x] &\xrightarrow{\sim} U \\ y^{n_1} b^{n_2} a^{n_3} x^{n_4} &\mapsto y^{n_1} b^{n_2} a^{n_3} x^{n_4} \end{aligned} \quad (2.4)$$

Using this vector space isomorphism, [BNvdV] expresses all Hopf algebra operations as perturbed Gaussians. To extend the resulting tangle invariant to one on links, one would need to define a trace operator on U . The first natural place to look is the coinvariants, $U_U = U/[U, U]$. In what follows, we will compute U_U , determine a vector space isomorphism to a suitable polynomial ring, and compute the corresponding generating function of the quotient map $\text{tr}: U \rightarrow U_U$.

2.2 PURE TANGLES AS A META-HOPF ALGEBRA

Tangled objects also have the structure of a meta-Hopf algebra. In this section, we follow the definitions laid out by Bar-Natan and van der Veen in [BNvdV].

Definition 2.4 (pure tangle). A pure tangle is an embedding of line segments (called strands) into the thickened unit disk $D \times [-1, 1]$ (or a disjoint

union of such disks) such that the endpoints of the line segments are fixed along $\partial D \times \{0\}$. Two pure tangles are considered equivalent if there exists an isotopy of the embedding which fixes the endpoints of the strands.

To work with pure tangles, we define an equivalent notion with a combinatorial flair:

Definition 2.5 (pure tangle diagram). A pure tangle diagram is a finite planar graph with distinguished circles called boundary circles. The remainder of the edges will be called arcs, and are contained inside the boundary circles, either meeting a boundary circle at a trivalent vertex, or meeting other internal edges at a tetravalent vertex (called a crossing). Each crossing is marked with a sign—positive or negative. Collections of edges which meet at opposite sides of an edge are called strands. Each strand must meet a boundary circle twice (that is, strands may not form loops). Two pure tangle diagrams are equivalent if one can be transformed into the other by a sequence of Reidemeister moves on the crossings.

Theorem 2.6 (pure tangles are tangle diagrams). *To each pure tangle one associates exactly one pure tangle diagram equivalence class. Further, a generic projection of a pure tangle to the flattened disks $\sqcup D \times \{0\}$ allows one to construct a tangle diagram corresponding to it.*

Proof. The projection of a generic perturbation of a pure tangle has the following properties:

- all intersections of strands with themselves, other strands, or a boundary circle are transverse.
- all intersections involve at most two strand components, so that no triple intersections appear.
- each projected strand is an immersion, so that no cusps appear.

From these data, we may construct a pure tangle diagram, assigning one crossing to each double intersection, with the sign selected based on which strand lay above the other before projecting. Extending Reidemeister's theorem to objects of this form is straightforward. \square

For the sake of algebraic closure, the notion of virtual tangles will be useful:

Definition 2.7 (virtual tangle diagram). A virtual tangle diagram is a diagram satisfying all conditions laid out in definition 2.5 except planarity, taken again up to a sequence of Reidemeister moves. We denote by \mathcal{T}_S the collection of virtual tangle diagrams with strands indexed by the finite set S .

Theorem 2.8 (virtual tangles are just crossings). *The data of a virtual tangle is equivalent to:*

- a collection of labels for strands
- a collection of crossings between strands
- the orders in which each strand interacts with each crossing.

Proof. □

Theorem 2.9 (virtual tangles form a quasitriangular meta-Hopf algebra). *The collection \mathcal{T}_X forms a quasitriangular meta-Hopf algebra with the following operations:*

- multiplication $m_k^{ij}[X]$ takes a tangle with strands $X \sqcup \{i, j\}$ and glues the end of strand i to strand j , labelling the resulting strand k .
- the unit $\eta_i[X]$ takes a tangle diagram with strands X and introduces a new strand i which does not touch any of the other strands.
- the comultiplication $\Delta_{jk}^i[X]$ takes a tangle with strands $X \sqcup \{i\}$ and doubles strand i , separating the two strands along the framing of strand i , calling the right strand j and the left one k .^{†1}
- the counit $\epsilon^i[X]$ takes a tangle with strands indexed by $X \sqcup \{i\}$ and returns the tangle with strand labelled by i deleted.
- the antipode $S_j^i[X]$ takes a tangle with strands labelled by $X \sqcup \{i\}$ and reverses the direction of strand i (calling the new strand j).
- the \mathcal{R} -matrix \mathcal{R}_{ij} is given by the two-strand tangle with a single positive crossing of strand i over strand j . The inverse \mathcal{R} -matrix $\overline{\mathcal{R}}_{ij}$ is the two-strand tangle with a negative crossing of strand i over strand j .

^{†1} While this convention appears unfortunate, we follow the notation laid out in [BNvdV] so that the antipode and spinner have a more memorable representation, namely looking like the letters they are represented by (see theorem 2.11 for more details).

Proof. Associativity of multiplication (equation (1.7)) follows from the fact that stitching strands together amounts to concatenating the order of the crossings each strand interacts with. Since list concatenation is an associative operation, associativity follows in this case as well.

Adding a non-interacting strand to a diagram, then stitching it to an existing strand (equation (1.8)) does not change any of the combinatorial data in the diagram, and results in identical diagrams.

Establishing coassociativity (equation (1.9)) amount to the same argument that cutting a piece of paper into three strips does not depend on the order of cutting.

The counit identity (equation (1.10)) states deleting a strand is the same operation as first doubling it, then deleting both resulting strands.

The meta-bialgebra axioms we verify next:

Equation (1.11) states that if two strands are stitched together, then the resulting strand is doubled, this could have equivalently been achieved by doubling each of the original strands, then performing a stitching on both resulting pairs of strands.

Equation (1.13) simply states that stitching two strands together, then removing the resulting strand could have equally been achieved by removing both of the original strands without stitching them first.

Equation (1.14) states that introducing a strand, then immediately removing it is the identity operation.

Equation (1.12) says that doubling a newly-introduced (and therefore free of crossings) strand is the same operation as introducing two strands separately. (Recall that in the virtual case, proximity of strands is not accounted for)

Equation (1.15) states that when a strand is doubled, then one of the two strands is reversed, multiplying the two strands together results in a strand which can be rearranged to not interact with any of the other strands. This can be readily seen, as this newly-created strand looks like a snake weaving through the tangle diagram. One can remove the snake by applying a series of Reidemeister 2 moves, resulting in a strand disjoint from the rest of the diagram. This is the same as deleting the original strand, then introducing a new disjoint one.

The quasitriangular axioms are equalities of pairs of three-strand tangles:

- Equations (1.16) and (1.17) tell us that doubling a strand involved in a single crossing can also be built by adjoining two crossings together.
- Equation (1.18) tells us that we can swap the order of a doubled strand by adding crossings to either end (reminiscent of a Reidemeister 2 move)

Finally, we observe that the quotient we introduce to tangle diagrams by the Reidemeister moves does not introduce any new relations. Reidemeister 2 follows from the invertibility of the \mathcal{R} -matrix. Next, it is readily seen that the quasitriangular relations governing the \mathcal{R} -matrix force it to solve the Yang-Baxter equation, which is one equivalent to the Reidemeister 3 in this case. \square

The invariants we deal with keep track not only of crossing data, but also rotation of strands between crossings. We introduce an object which monitors these additional data:

Definition 2.10 (Rotational Virtual Tangle (RVT) diagrams). A Rotational Virtual Tangle (RVT) diagram is a virtual tangle diagram, together with an assignment of an integer to each arc, called the rotation number of the arc. This is visualised by requiring that each strand's intersection with the boundary is pointing upwards, and that each crossing is between curves whose tangent deviates less than $\pi/2$ from the vertical direction.

Equivalence between RVT diagrams is determined by extending the traditional Reidemeister moves with the whirling relation: any crossing may be rotated by full rotations. This amounts to increasing both outgoing strands' rotation number by some $n \in \mathbb{Z}$, and adding $-n$ to the rotation number of the incoming strands. Additionally, we must take care that framed Reidemeister 1 and the cyclic Reidemeister 2 include appropriate rotation numbers on their arcs. The set of RVTs with strands indexed by a set X will be denoted $\mathcal{T}_X^{\text{rv}}$.

Theorem 2.11 (RVTs form a meta-ribbon Hopf algebra). *The collections $\mathcal{T}_X^{\text{rv}}$ form a meta-ribbon Hopf algebra, with the same definitions as in theorem 2.9, except:*

- The antipode $S_j^i[X]$ takes a tangle with strands labelled by $X \sqcup \{i\}$ and reverses the direction of strand i , then adds a counter-clockwise cap to

the new beginning, and a clockwise cup to the end. This new strand is called j . When applied to a single vertical strand, the resulting tangle looks like the letter “S”.

- *The spinner $C_i[X]$ takes a tangle in \mathcal{T}_X^{rv} and adds a new strand with rotation number 1 which has no interactions with any other strands. This new strand looks like the letter “C”.*

Proof. This proof follows that of theorem 2.9 almost exactly. We need only take note of the modifications:

The antipode now has corrections to the ends of the strands so that all components continue pointing upwards. The same argument of generating a snake in equation (1.15), then sliding it out of the diagram with Reidemeister 2 moves still applies (though more care must be taken with the rotation numbers of the involved arcs).

Using lemma 1.17, it is enough to verify the spinner axioms (equations (1.26) to (1.30)). All these axioms have corresponding pictures one can draw, keeping in mind the orientations in the definitions of the relevant operations. \square

2.3 ROTATIONAL TANGLE INVARIANTS FROM A RIBBON HOPF ALGEBRA

Here we describe the morphism from the category of pure rotational virtual tangles to a ribbon Hopf algebra, as outlined by Bar-Natan and van der Veen in [BNvdV].

We define the morphism of meta-ribbon Hopf algebras in two steps:

1. Given a pure tangle, we write out a sequence of meta-ribbon Hopf algebra operations which produce the tangle. Each operation is then mapped to the corresponding operation on the algebra, with a sequence of operations mapped to composition.
2. Since computing compositions of operations is an essential component to this invariant, we then define an equivalent category which allows for the more efficient computation. This is done by replacing morphisms

To efficiently describe \mathbb{k} -linear maps between tensor powers of the algebra U , we define categories \mathcal{U} , \mathcal{H} , and \mathcal{C} with objects finite sets and morphisms:

$$\mathrm{Hom}_{\mathcal{U}}(J, K) := \mathrm{Hom}_{\mathbb{k}}(U^{\otimes J}, U^{\otimes K}) \quad (2.5)$$

$$\mathrm{Hom}_{\mathcal{H}}(J, K) := \mathrm{Hom}_{\mathbb{k}}(\mathbb{Q}[z_J], \mathbb{Q}[z_K]) \quad (2.6)$$

$$\mathrm{Hom}_{\mathcal{C}}(J, K) := \mathbb{Q}[z_K][[\zeta_J]] \quad (2.7)$$

There exist monoidal isomorphisms between these categories, namely $\mathbb{O}: \mathcal{H} \xrightarrow{\sim} \mathcal{U}$ and $\mathcal{G}: \mathcal{H} \xrightarrow{\sim} \mathcal{C}$ as introduced in equations (2.2) and (2.4).

We use this formulation because of the existence of a computationally amenable subcategory of \mathcal{C} which contains the image of this invariant.

Formulating composition in other categories

Composing operations in \mathcal{U} or \mathcal{H} is straightforward to define, but lacks a closed form. However, on \mathcal{C} , the corresponding definition of composition takes the following form (quoted from [BNvdV, Lemma 3]):

Lemma 2.12 (Composition of generating functions). *Suppose J, K, L are finite sets and $\phi \in \mathrm{Hom}(\mathbb{Q}[z_J], \mathbb{Q}[z_K])$ and $\psi \in \mathrm{Hom}(\mathbb{Q}[z_K], \mathbb{Q}[z_L])$. We have*

$$\mathcal{G}(\phi // \psi) = \left(\mathcal{G}(\phi) \Big|_{z_K \rightarrow \partial \zeta_K} \mathcal{G}(\psi) \right) \Big|_{\zeta_K=0} \quad (2.8)$$

Since the above notation will occur several times, we will use the notion of contraction used by Bar-Natan and van der Veen (taken from [BNvdV, Definition 4]):

Definition 2.13 (Contraction). Let $f \in \mathbb{k}[[r, s]]$ be a powerseries. The contraction of $f = \sum_{k,l} c_{k,l} r^k s^l$ along the pair (r, s) is:

$$\langle f \rangle_{(r,s)} := \sum_k c_{k,k} k! = \sum_{k,l} c_{k,l} \partial_s^k s^l \Big|_{s=0} \quad (2.9)$$

Further, this notation is to be extended to allow for multiple consecutive contractions for $f \in \mathbb{k}[[r_i, s_i]]_{i \leq n}$:

$$\langle f \rangle_{((r_i)_i, (s_i)_i)} := \left\langle \left\langle \langle f \rangle_{(r_1, s_1)} \right\rangle_{(r_2, s_2)} \cdots \right\rangle_{(r_n, s_n)} \quad (2.10)$$

It is important to note that contraction does not always define a convergent expression. We will focus our attention on cases when convergence is well-defined, and especially those where the computation is accessible.

The theorem we will rely heavily on in this thesis is the following, taken from [BNvdV, Theorem 6]:

Theorem 2.14 (Contraction theorem). *For any $n \in \mathbb{N}$, consider the ring $R_n = \mathbb{Q}[r_j, g_j][[s_j, W_{ij}, f_j \mid 1 \leq i, j \leq n]]$. Then*

$$\langle \mathbf{e}^{gs+rf+rWs} \rangle_{r,s} = \det(\tilde{W}) \mathbf{e}^{g\tilde{W}f} \quad (2.11)$$

where $\tilde{W} = (1 - W)^{-1}$.

The main takeaway of this theorem is this: morphisms whose generating functions are Gaußians have a clean formula for composition. Furthermore, this formula is computationally reasonable, growing only polynomially in complexity with n . This is contrasted with the conventional approach of choosing a representation V of U . When one considers morphisms between large tensor powers $V^{\otimes n}$, the computational complexity is exponential in n .

Expressing Hopf algebra operations as perturbed Gaußians

We will now observe that the meta-Hopf algebra operations for U as defined in section 2.1 all have the form of a perturbed Gaußian. Namely:

$$\mathcal{G}(m_k^{ij}) = \exp\left((\alpha_i + \alpha_j)a_k + (\beta_i + \beta_j + \xi_i\eta_j)b_k + \left(\frac{\xi_i}{\mathcal{A}_j} + \xi_j\right)x_k + \left(\frac{\eta_j}{\mathcal{A}_i} + \eta_i\right)y_k\right) \quad (2.12)$$

$$\mathcal{G}(\eta_i) = 1 \quad (2.13)$$

$$\mathcal{G}(\Delta_{jk}^i) = \exp(\beta_i(b_j + b_k) + \alpha_i(a_j + a_k) + \eta_i(y_j + y_k) + \xi_i(x_j + x_k)) \quad (2.14)$$

$$\mathcal{G}(\epsilon^i) = 1 \quad (2.15)$$

$$\mathcal{G}(S_i^i) = \exp(-a_i\alpha_i - b_i\beta_i - \eta_i\mathcal{A}_iy_i - \mathcal{A}_i\xi_ix_i + \eta_i\mathcal{A}_i\xi_ib_i) \quad (2.16)$$

$$\mathcal{G}(\mathcal{R}_{ij}) = \exp\left(a_jb_i + \frac{B_i - 1}{-b_i}y_ix_j\right) \quad (2.17)$$

$$\mathcal{G}(C_i) = \sqrt{B_i} \quad (2.18)$$

$$\mathcal{G}(\nu_i) = \sqrt{B_i} \exp\left(a_ib_i + \frac{1 - B_i}{b_i}x_iy_i\right) \quad (2.19)$$

Notational conventions

The generating function of a tangle is not the entirety of this definition, for the additional data is the domain and codomain of the corresponding morphism.

We will thereby write a morphism with domain D , codomain C , and generating function $f(\zeta_D, z_C)$ as $f(\zeta_D, z_C)_C^D$.

$$Z(K_{3,1}) = \left(\frac{1}{B_1^{-1} + 1 + B_1^1}\right)_{\{1\}}^{\emptyset} = \Delta(K_{3,1})^{-1} \quad (2.20)$$

$$Z(K_{11a10}) = \left(\frac{1}{2B_1^{-3} - 11B_1^{-2} + 25B_1^{-1} - 31 + 25B_1 - 11B_1^2 + 2B_1^3}\right)_{\{1\}}^{\emptyset} = \Delta(K_{11a10})^{-1} \quad (2.21)$$

Since each tangle is expressed as an object, the domains in these examples are empty.

CONSTRUCTING THE TRACE

3.1 EXTENDING A PURE TANGLE INVARIANT TO LINKS AND GENERAL TANGLES

Thus far, the algebraic setting we have defined allows us to describe invariants of tangles with no closed components. We now extend the notion of a meta-Hopf algebra to include closed components.

Definition 3.1 (traced meta-algebra). A traced meta-algebra is a family of meta-algebras: for each finite set L , we assign one meta-algebra $\{A_{L,S}\}_S$.^{†1} The multiplication maps $m_k^{i,j}[L]$ then take the form:

$$m_k^{i,j}[L][S]: A_{\{i,j\} \sqcup S, L} \rightarrow A_{\{k\} \sqcup S, L} \quad (3.1)$$

for i, j, k disjoint from both S and L .

There is an additional structure, called a trace. The compatibility of the families of meta-algebras is governed this trace in the following way: $\text{tr}^i: A_{\{i\} \sqcup S, L} \rightarrow A_{S, \{i\} \sqcup L}$ which satisfies the cyclic property:

$$m_k^{i,j} \parallel \text{tr}^k = m_k^{j,i} \parallel \text{tr}^k \quad (3.2)$$

The first example we give is that of impure tangles.

Definition 3.2 (Impure Rotational Virtual Tangles). Let $\mathcal{T}_{L,S}^{\text{rv}}$ be the set of rotational virtual tangles with open strands indexed by S and closed strands indexed by L . The operations $\phi[L][S]$ are defined analogously to the $\phi[S]$ given in theorem 2.9. (Here ϕ varies over $m, \eta, \Delta, \epsilon, S, \mathcal{R}$, and C .)

^{†1} These sets index the “strands” S and the “loops” L .

Lemma 3.3 (tangles as a traced algebra). *The collection of all $\mathcal{T}_{L,S}^{rv}$ is a traced ribbon meta-Hopf algebra, with trace map given by closing a strand into a loop.*

Proof. When $L = \emptyset$, the situation is exactly the case of theorem 2.6, so $\mathcal{T}_{\emptyset,S}^{rv} = \mathcal{T}_S$ is a meta-Hopf algebra. Furthermore, since the Reidemeister moves are local operations, the presence of closed components does not affect our ability to verify the identities on the Hopf-algebra operations.

The last point to verify is that closing a strand into a loop is a cyclic operation. Given two strands, we must verify that stitching one end together, then tracing the other yields the same diagram as stitching the other ends together, then taking the trace. However, by definition of trace, these two actions yield identical diagrams, the two strands replaced by the same closed loop. \square

Lemma 3.4 (coinvariants as a trace map). *Let A be an algebra, and denote by A_A its set of coinvariants. Then define $A_{S,L} := A^{\otimes S} \otimes A_A^{\otimes L}$. Then A defines a traced meta-algebra with trace map given by $\text{tr}_j^i: A_i \rightarrow (A_A)_j$.*

Proof. Observe that for any choice of L , extending morphisms by the identity yield an isomorphism of traced meta-Hopf algebras:

$$\begin{aligned} \phi_L: \{A^{\otimes S}\}_S &\xrightarrow{\sim} \{A^{\otimes S} \otimes A_A^{\otimes L}\}_S \\ A^{\otimes S} &\mapsto A^{\otimes S} \otimes A_A^{\otimes L} \\ f &\mapsto f \otimes \text{id}_{A_A}^{\otimes L} \end{aligned} \tag{3.3}$$

Next, we wish to show that the two maps with shape $f: A^{\otimes\{i,j\} \sqcup S} \otimes A_A^{\otimes L} \rightarrow A^{\otimes S} \otimes A_A^{\otimes\{k\} \sqcup L}$ are equivalent. This amounts to showing that, given $u, v \in A$, that $\overline{uv} = \overline{vu} \in A_A$. However, by the construction of the coinvariants, $\overline{uv} - \overline{vu} = \overline{uv - vu} = \overline{0} \in A$, and we are done. \square

3.2 THE COINVARIANTS OF U

We start with a result which simplifies working with coinvariants:

Lemma 3.5 (Coinvariant simplification). *Let \mathfrak{h} be a Lie algebra. Then $\mathfrak{U}(\mathfrak{h})_{\mathfrak{U}(\mathfrak{h})} = \mathfrak{U}(\mathfrak{h})_{\mathfrak{h}}$.*

Proof. First, observe that for any $u, v, f \in \mathfrak{U}(\mathfrak{h})$, $\text{ad}_{uv}(f) = \text{ad}_u(vf) + \text{ad}_v(fu)$. Proceeding inductively, for any monomial $\mu \in \mathfrak{U}(\mathfrak{h})$, $\text{ad}_\mu(u)$ is a linear combination of elements of $[\mathfrak{h}, \mathfrak{U}(\mathfrak{h})]$. By linearity of ad , we conclude $[\mathfrak{U}(\mathfrak{h}), \mathfrak{U}(\mathfrak{h})] = [\mathfrak{h}, \mathfrak{U}(\mathfrak{h})]$. \square

Theorem 3.6. *The coinvariants of U , U_U , has basis $\{y^n a^k x^n\}_{n,k \geq 0}$.*

Proof. Using lemma 3.5, we need only compute $[\mathfrak{g}, U]$ to determine U_U . Given a polynomial f , we have the following relations in U :

$$f(a)y^r = y^r f(a-r) \quad x^r f(a) = f(a-r)x^r \quad (3.4)$$

Next we compute the adjoint actions of y , a , and x . (Recall b is central.)

$$\text{ad}_a f(x) = x f'(x) \quad \text{ad}_a f(y) = -y f'(y) \quad (3.5)$$

$$\text{ad}_x f(y) = b f'(y) \quad \text{ad}_x f(a) = -\nabla[f](a)x \quad (3.6)$$

$$\text{ad}_y f(x) = -b f'(x) \quad \text{ad}_y f(a) = y \nabla[f](a) \quad (3.7)$$

(Here ∇ is the backwards finite difference operator $\nabla[f](x) := f(x) - f(x-1)$.)

Observe for any n, m, k , and polynomials f and g :

$$\text{ad}_a(y^m g(b, a)x^n) = (n-m)y^m g(b, a)x^n \quad (3.8)$$

$$\text{ad}_x(y^{n+1}b^{m-1}f(a)x^k) = (n+1)y^n b^m f(a)x^k - y^{n+1}b^{m-1}\nabla[f](a)x^{k+1} \quad (3.9)$$

$$\text{ad}_y(y^n b^{m-1}f(a)x^{k+1}) = -(k+1)y^n b^m f(a)x^k + y^{n+1}b^{m-1}\nabla[f](a)x^{k+1} \quad (3.10)$$

By equation (3.8), any monomial whose powers of y and x differ vanish in $U_{\mathfrak{g}}$. As a consequence, in equations (3.9) and (3.10), the only nontrivial case is when $n = k$, resulting in the same relation. By induction on n , we conclude that:

$$y^n b^m f(a)x^k \sim \delta_{nk} \frac{n!}{(n+m)!} y^{n+m} \nabla^m[f](a)x^{n+m} \quad (3.11)$$

Observing when f is a monomial in equation (3.11), we see $U_{\mathfrak{g}}$ is spanned by $\{y^n a^k x^n\}_{n,k \geq 0}$. Since all relations are accounted for, setting $m = 0$ demonstrates this set is linearly independent, and we have a basis. \square

A generating function for the coinvariants

In order to define a generating function, we need to choose an appropriate basis for the space of coinvariants. We define an isomorphism from the space of coinvariants to a polynomial space, tweaking the earlier-defined basis by scalar multiples. Since it plays the role of the ordering map, we also name it \mathbb{O} .

$$\begin{aligned} \mathbb{O}: \mathbb{Q}[a, z] &\xrightarrow{\sim} U_U \\ a^n z^k &\mapsto \frac{1}{k!} y^k a^n x^k \\ k! \nabla^m[f](a) z^{k+m} &\mapsto y^k b^m f(a) x^k \end{aligned} \quad (3.12)$$

This defines a commutative square upon whose bottom edge $\tau = \mathbb{O} \parallel \text{tr} \parallel \mathbb{O}^{-1}$ we compute the generating function:

$$\begin{array}{ccc} U & \xrightarrow{\text{tr}} & U_U \\ \mathbb{O} \uparrow & & \uparrow \mathbb{O} \\ \mathbb{Q}[y, b, a, x] & \xrightarrow{\tau} & \mathbb{Q}[a, z] \end{array} \quad (3.13)$$

We begin with a result on finite differences:

Lemma 3.7 (finite differences of exponentials). *The finite difference operator acts in the following way on exponentials:*

$$\nabla^n[\mathbf{e}^{\alpha a}](a) = (1 - \mathbf{e}^{-\alpha})^n \mathbf{e}^{\alpha a} \quad (3.14)$$

Proof. Using the fact that $\nabla^n[f](x) = \sum_{k=0}^n \binom{n}{k} (-1)^k f(x - k)$, we see that $\nabla^n[\mathbf{e}^{\alpha a}](a) = \sum_{k=0}^n \binom{n}{k} (-1)^k \mathbf{e}^{\alpha a - \alpha k} = (1 - \mathbf{e}^{-\alpha})^n \mathbf{e}^{\alpha a}$. \square

We now are ready to compute the generating function for the trace:

Theorem 3.8 (Generating function for the trace of U).

$$\mathcal{G}(\text{tr}) = \exp\left(\alpha a + (\eta\xi + \beta(1 - \mathbf{e}^{-\alpha}))z\right) \quad (3.15)$$

Proof. Using lemma 3.7 and the extension of scalars of tr to $\mathbb{Q}[\eta, \beta, \alpha, \xi]$, we see

$$\begin{aligned}
\mathcal{G}(\mathbb{O} // \text{tr} // \mathbb{O}^{-1}) &= (\mathbf{e}^{\eta y} \mathbf{e}^{\beta b} \mathbf{e}^{\alpha a} \mathbf{e}^{\xi x}) // \text{tr} // \mathbb{O}^{-1} \\
&= \mathbb{O}^{-1} \sum_{i,j,k} \text{tr} \left(\frac{(\eta y)^i}{i!} \frac{(\beta b)^j}{j!} \mathbf{e}^{\alpha a} \frac{(\xi x)^k}{k!} \right) \\
&= \sum_{i,j} \frac{\eta^i \beta^j \xi^i}{i! j!} (1 - \mathbf{e}^{-\alpha})^j \mathbf{e}^{\alpha a} z^{i+j} = \mathbf{e}^{\alpha a + (\eta \xi + \beta(1 - \mathbf{e}^{-\alpha}))z} \quad \square
\end{aligned} \tag{3.16}$$

Evaluation of the trace on a generic element

Here we will outline a computation involving the trace by using Bar-Natan and van der Veen's Contraction Theorem.

A typical value for a tangle invariant that arises is of the form:

$$P \mathbf{e}^{c + \alpha a_i + \beta b_i + \xi(b_i)x_i + \eta(b_i)y_i + \lambda(b_i)x_i y_i} \tag{3.17}$$

Here, c , α , and β denote constants with respect to the variables y_i , b_i , a_i , and x_i (collectively referred to as " v_i "s), while ξ , η , and λ are potentially b_i -dependent, and P is a (rational) function in (the square root of) B_i .

Theorem 3.9 (The trace of a Gaussian). *With symbols as defined above, let $f(y_i, b_i, a_i, x_i) = P(B_i) \mathbf{e}^{c + \alpha a_i + \beta b_i + \xi(b_i)x_i + \eta(b_i)y_i + \lambda(b_i)x_i y_i}$. Then*

$$\langle f(y_i, b_i, a_i, x_i) \text{tr}^i \rangle_{v_i} = \frac{P(\mathbf{e}^{-\mu})}{1 - \lambda(\mu)} \mathbf{e}^{c + \alpha \bar{a}_i + \beta \mu + \frac{\eta(\mu)\xi(\mu)\bar{z}_i}{1 - \lambda(\mu)\bar{z}_i}} \tag{3.18}$$

where $\mu := (1 - \mathbf{e}^{-\alpha})\bar{z}_i$.

Proof. Let us compute the trace of equation (3.17). For clarity, we will put bars over the coinvariants variables a_i and z_i , as they do not play a role in the contraction.

$$\begin{aligned} & \langle P(B_i) \mathbf{e}^{c+\alpha a_i+\beta b_i+\xi(b_i)x_i+\eta(b_i)y_i+\lambda(b_i)x_i y_i} \text{tr}^i \rangle_{v_i} \\ &= \langle P(B_i) \mathbf{e}^{c+\beta b_i+\xi(b_i)x_i+\eta(b_i)y_i+\lambda(b_i)x_i y_i+\eta_i \xi_i \bar{z}_i+\beta_i(1-\mathbf{e}^{-\alpha})\bar{z}_i} \mathbf{e}^{\alpha a_i+\alpha_i \bar{a}_i} \rangle_{v_i} \\ &= \mathbf{e}^{\alpha \bar{a}_i} \langle P(B_i) \mathbf{e}^{c+\xi(b_i)x_i+\eta(b_i)y_i+\lambda(b_i)x_i y_i+\eta_i \xi_i \bar{z}_i} \mathbf{e}^{\beta b_i+\beta_i(1-\mathbf{e}^{-\alpha})\bar{z}_i} \rangle_{b_i, x_i, y_i} \end{aligned}$$

$$\begin{aligned} & \text{In what follows, we let } \mu := (1 - \mathbf{e}^{-\alpha})\bar{z}_i: \\ &= \mathbf{e}^{c+\alpha \bar{a}_i+\beta \mu} P(\mathbf{e}^{-\mu}) \langle \mathbf{e}^{\eta(\mu)y_i} \mathbf{e}^{(\xi(\mu)+\lambda(\mu)y_i)x_i+\xi_i \eta_i \bar{z}_i} \rangle_{x_i, y_i} \\ &= \mathbf{e}^{c+\alpha \bar{a}_i+\beta \mu} P(\mathbf{e}^{-\mu}) \langle \mathbf{e}^{\eta(\mu)y_i+\xi(\mu)\bar{z}_i \eta_i+\lambda(\mu)\bar{z}_i \eta_i y_i} \rangle_{y_i} \\ &= \frac{P(\mathbf{e}^{-\mu})}{1 - \lambda(\mu)\bar{z}_i} \mathbf{e}^{c+\alpha \bar{a}_i+\beta \mu+\frac{\eta(\mu)\xi(\mu)\bar{z}_i}{1-\lambda(\mu)\bar{z}_i}} \end{aligned} \tag{3.19}$$

□

We point out that the outcome of this computation is not guaranteed to be a Gaussian. This puts a limitation on the applicability of this formula to links with more than two components, explored in chapter 4.

Computational examples

Using the formula given in equation (3.18), let us do some preliminary examples:

$$\text{tr}^i(R_{ij}) = 1 \tag{3.20}$$

$$\text{tr}^j(R_{ij}) = \mathbf{e}^{b_i \bar{a}_j} \tag{3.21}$$

$$\begin{aligned} & \text{tr}^2 \left(\sqrt{B_2} \mathbf{e}^{-a_2 b_1 - a_1 b_2 + \frac{(B_1-1)x_2 y_1}{b_1 B_1} + \frac{(B_2-1)x_1 y_2}{b_2 B_2}} \right) = \\ & \mathbf{e}^{\frac{a_1(\bar{z}_2 - B_1 \bar{z}_2)}{B_1} - b_1 \bar{a}_2 + \frac{e^{B_1 \bar{z}_2} (x_1 y_1 e^{\frac{B_1-1}{b_1} \bar{z}_2 - x_1 y_1 e^{\bar{z}_2}})}{b_1} + \frac{1}{2} B_1^{-1} \bar{z}_2 - \frac{\bar{z}_2^2}{2}} \end{aligned} \tag{3.22}$$

Equations (3.20) and (3.21) are the values one obtains for the two (virtual) one-crossing, two-component link, while equation (3.22) is the value of the invariant on the Hopf link.

When computing this on a link, however, it is important to keep track of which strands are open, and which are closed. We will extend the notation

from the previous section to differentiate between open and closed indices. We write a morphism with domain $D = D_o \sqcup D_c$, codomain $C = C_o \sqcup C_c$ (here D_o denotes domain indices which are open, while D_c those which are closed, with the same convention for C) and generating function $f(\zeta_D, z_C)$ as $f(\zeta_D, z_C)_{(C_o, C_c)}^{(D_o, D_c)}$.

CONCLUSIONS

Limitations of this definition

For some inputs to the trace, expressions involving the Lambert W -function appear, which complicates attempts to keep the invariant valued in the space of perturbed Gaussians.

4.1 COMPARISON WITH THE MULTIVARIABLE ALEXANDER POLYNOMIAL

Given that the long knot (i.e. one-component) case of this invariant encodes the Alexander Polynomial, it was suspected that the invariant on long links (i.e. multiple components, one of which is long) formed by adding the trace would encode the Multivariable Alexander polynomial ([MVA](#)). However, there are links which the [MVA](#) separates which this invariant does not.

On all two-component links with at most 11 crossings (a collection of size 914), the trace map attains 878 distinct values, while the MVA attains only 778. However, the two invariants are incomparable in terms of their strength.

The links L_{5a1} and L_{10a43} are not distinguished by their partial traces, with both returning a value of:

$$\left(\left(\frac{B_1}{B_1^2 t_2 - 2B_1 t_2 + B_1 + t_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^{3/2}}{B_2^2 t_1 - 2B_2 t_1 + B_2 + t_1} \right)_{(\{2\}, \{1\})} \right) \quad (4.1)$$

The values of these links under the [MVA](#) are, however

$$\frac{(B_1 - 1)(B_2 - 1)}{\sqrt{B_1}\sqrt{B_2}} \text{ and } -\frac{(B_1 - 1)(B_2 - 1)(B_1 + B_2 - 1)(B_2 B_1 - B_1 - B_2)}{B_1^{3/2} B_2^{3/2}} \quad (4.2)$$

respectively.

In the other direction, there are also pairs of links in the same fibre of the [MVA](#) which this traced invariant can distinguish. In particular L_{5a1} and L_{7n2} both have the same value under the [MVA](#):

$$\frac{(B_1 - 1)(B_2 - 1)}{\sqrt{B_1}\sqrt{B_2}} \quad (4.3)$$

The trace yields the following values (respectively):

$$\left(\left(\frac{B_1}{B_1^2 t_2 - 2B_1 t_2 + B_1 + t_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^{3/2}}{B_2^2 t_1 - 2B_2 t_1 + B_2 + t_1} \right)_{(\{2\}, \{1\})} \right) \quad (4.4)$$

$$\left(\left(\frac{B_1}{B_1^2 t_2 - 2B_1 t_2 + B_1 + t_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^{5/2}}{B_2^2 t_1 - 2B_2 t_1 + B_2^2 - B_2 + t_1 + 1} \right)_{(\{2\}, \{1\})} \right) \quad (4.5)$$

This example also serves to highlight that the information provided by leaving one strand open is not enough to recover the value of a different strand being left open.

4.2 FURTHER WORK

While all other Hopf algebra operations in U are expressed by [\[BNvdV\]](#) as perturbed Gaussians, the form in equation (3.15) does not conform to the same structure. Further work is needed to either implement this operation into the established framework, or to suitably extend the framework (perhaps with the use of Lambert W -functions).

CODE

A.1 IMPLEMENTATION OF THE INVARIANT Z

This is a MathematicaTM implementation by Bar-Natan and van der Veen in [BNvdV], modified by the author. We begin by setting some variables, as well as a method for modifying associations.

```

1  γ = 1; ħ = 1; $k = 0;
2  setValue[value_,obj_,coord_] := Module[
3      {b=Association@@obj},
4      b[coord] = value; Head[obj]@@Normal@b
5  ]

```

We introduce notation $\text{PG}[L, Q, P]$ to be interpreted as the Perturbed Gaußian Pe^{L+Q} . The function `fromE` serves as a compatibility layer between a former version of the code.

```

6  toPG[L_, Q_, P_] := PG["L" -> L, "Q" -> Q, "P" -> P]
7  fromE[e_][DoubleStruckCapitalE] := toPG@@e/.
8      Subscript[(v: y|b|t|a|x|B|T|η|β|τ|α|ξ|A), i_] -> v[i]

```

We define the Kronecker- δ function next.

```

9  δ[i_, j_] := If[SameQ[i, j], 1, 0]

```

Next we introduce helper functions for the reading and manipulating of PG-objects:

```

10 getL[pg_PG] := Lookup[Association@@pg, "L", 0]
11 getQ[pg_PG] := Lookup[Association@@pg, "Q", 0]
12 getP[pg_PG] := Lookup[Association@@pg, "P", 1]
13
14 setL[L_][pg_PG] := setValue[L, pg, "L"];
15 setQ[Q_][pg_PG] := setValue[Q, pg, "Q"];

```

```

16 setP[P_][pg_PG] := setValue[P, pg, "P"];
17
18 applyToL[f_][pg_PG] := pg//setL[pg//getL//f]
19 applyToQ[f_][pg_PG] := pg//setQ[pg//getQ//f]
20 applyToP[f_][pg_PG] := pg//setP[pg//getP//f]

```

Next is a function CF, which bring objects into canonical form allows us to compare for equality effectively. This is defined by Bar-Natan and van der Veen.

```

21 CCF[e_] := ExpandDenominator@ExpandNumerator@Together[
22     Expand[e] //. E^x_ E^y_ :> E^(x + y) /. E^x_ :>
        ↳ E^CCF[x]
23 ];
24 CF[sd_SeriesData] := MapAt[CF, sd, 3];
25 CF[e_] := Module[
26     {vs = Union[
27         Cases[e, (y|b|t|a|x|η|β|τ|α|ξ)[_], ∞],
28         {y, b, t, a, x, η, β, τ, α, ξ}
29     ]},
30     Total[CoefficientRules[Expand[e], vs] /.
31         (ps_ -> c_) :> CCF[c] (Times @@ (vs^ps))
32     ]
33 ];
34 CF[e_PG] := e//applyToL[CF]//applyToQ[CF]//applyToP[CF]

```

We must also define the notion of equality for PG-objects, as well as what it means to multiply them.

```

35 Congruent[x_, y_, z_] := And[Congruent[x, y], Congruent[y, z]]
36 PG /: Congruent[pg1_PG, pg2_PG] := And[
37     CF[getL@pg1 == getL@pg2],
38     CF[getQ@pg1 == getQ@pg2],
39     CF[Normal[getP@pg1 - getP@pg2] == 0]
40 ];
41
42 PG /: pg1_PG * pg2_PG := toPG[
43     getL@pg1 + getL@pg2,
44     getQ@pg1 + getQ@pg2,

```

```

45      getP@pg1 * getP@pg2
46  ]
47
48  setEpsilonDegree[k_Integer][pg_PG] :=
    ↪ setP[Series[Normal@getP@pg,{ $\epsilon$ , 0, k}]]][pg]

```

The variables y , b , t , a , and x are paired with their dual variables η , β , τ , α , and ξ . This applies as well when they have subscripts.

```

49  dds12vars = {y, b, t, a, x, z};
50  dds12varsDual = { $\eta$ ,  $\beta$ ,  $\tau$ ,  $\alpha$ ,  $\xi$ ,  $\zeta$ };
51
52  Evaluate[Dual/@dds12vars] = dds12varsDual;
53  Evaluate[Dual/@dds12varsDual] = dds12vars;
54  Dual@z =  $\zeta$ ;
55  Dual@ $\zeta$  = z;
56  Dual[u_[i_]] := Dual[u][i]

```

Since various exponentials of the lowercase variables frequently appear, we introduce capital variable names to handle various exponentiated forms.

```

57  U2l = {
58      B[i_]^p_ := E^(-p  $\hbar$   $\gamma$  b[i]), B^p_ := E^(-p  $\hbar$   $\gamma$  b),
59      W[i_]^p_ := E^(w[i]), W^p_ := E^(p w),
60      T[i_]^p_ := E^(-p  $\hbar$  t[i]), T^p_ := E^(-p  $\hbar$  t),
61      A[i_]^p_ := E^(p  $\gamma$   $\alpha$ [i]), A^p_ := E^(-p  $\gamma$   $\alpha$ )
62  };
63  l2U = {
64      E^(c_ b[i_] + d_) := B[i]^(-c/( $\hbar$   $\gamma$ ))E^d,
65      E^(c_ b + d_) := B^(-c/( $\hbar$   $\gamma$ ))E^d,
66      E^(c_ t[i_] + d_) := T[i]^(-c/ $\hbar$ )E^d,
67      E^(c_ t + d_) := T^(-c/ $\hbar$ )E^d,
68      E^(c_  $\alpha$ [i_] + d_) := A[i]^(c/ $\gamma$ )E^d,
69      E^(c_  $\alpha$  + d_) := A^(c/ $\gamma$ )E^d,
70      E^(c_ w[i_] + d_) := W[i]^(c)E^d,
71      E^(c_ w + d_) := W^(c)E^d,
72      E^expr_ := E^Expand@expr
73  };

```

Below the notion of differentiation is defined for expressions which involve both upper- and lower-case variables.

```

74 DD[f_, b] := D[f, b] -  $\hbar$   $\gamma$  B D[f, B];
75 DD[f_, b[i_]] := D[f, b[i]] -  $\hbar$   $\gamma$  B[i] D[f, B[i]];
76
77 DD[f_, t] := D[f, t] -  $\hbar$  T D[f, T];
78 DD[f_, t[i_]] := D[f, t[i]] -  $\hbar$  T[i] D[f, T[i]];
79
80 DD[f_,  $\alpha$ ] := D[f,  $\alpha$ ] +  $\gamma$  A D[f, A];
81 DD[f_,  $\alpha$ [i_]] := D[f,  $\alpha$ [i]] +  $\gamma$  A[i] D[f, A[i]];
82
83 DD[f_, v_] := D[f, v];
84 DD[f_, {v_, 0}] := f;
85 DD[f_, {}] := f;
86 DD[f_, {v_, n_Integer}] := DD[DD[f, v], {v, n-1}];
87 DD[f_, {l_List, ls___}] := DD[DD[f, l], {ls}];

```

What follows now is the implementation of contraction as introduced in definition 2.13. We begin with the introduction of contractions of (finite) polynomials.

```

88 collect[sd_SeriesData,  $\zeta$ ] := MapAt[collect[#,  $\zeta$ ] &, sd, 3];
89 collect[expr_,  $\zeta$ ] := Collect[expr,  $\zeta$ ];
90
91 Zip[{}][P_] := P;
92 Zip[ $\zeta$ s_List][Ps_List] := Zip[ $\zeta$ s]/@Ps;
93 Zip[{ $\zeta$ _,  $\zeta$ s___}][P_] := (collect[P // Zip[{ $\zeta$ s}],  $\zeta$ ] /.
94   f_.  $\zeta$ ^d_. :> DD[f, {Dual[ $\zeta$ ], d}]) /.
95   Dual[ $\zeta$ ] -> 0 /.
96   ((Dual[ $\zeta$ ] /. {b->B, t->T,  $\alpha$  -> A}) -> 1)

```

We define contraction along the variables x and y (here packaged into the matrix Q).

```

97 QZip[ $\zeta$ s_List][pg_PG] := Module[{Q, P,  $\zeta$ , z, zs, c, ys,  $\eta$ s, qt,
  ↪ zrule,  $\zeta$ rule},
98   zs = Dual/@ $\zeta$ s;
99   Q = pg//getQ;

```

```

100   P = pg//getP;
101   c = CF[Q/.Alternatives@@Union[ $\zeta$ s, zs]->0];
102   ys = CF/@Table[D[Q, $\zeta$ ]/.Alternatives@@zs->0,{ $\zeta$ , $\zeta$ s}];
103    $\eta$ s = CF/@Table[D[Q,z]/.Alternatives@@ $\zeta$ s->0,{z,zs}];
104   qt = CF/#&/@Inverse@Table[
105        $\delta$ [z, Dual[ $\zeta$ ]] - D[Q,z, $\zeta$ ],
106       { $\zeta$ , $\zeta$ s},{z,zs}
107   ];
108   zrule = Thread[zs -> CF/@(qt . (zs + ys))];
109    $\zeta$ rule = Thread[ $\zeta$ s ->  $\zeta$ s +  $\eta$ s . qt];
110   CF@setQ[c +  $\eta$ s.qt.yes]@setP[Det[qt] Zip[ $\zeta$ s][P /.
       $\hookrightarrow$  Union[zrule,  $\zeta$ rule]]]@pg
111 ]

```

We define contraction along the variables a and b (here packaged into the matrix L).

```

112 LZip[ $\zeta$ s_List][pg_PG] := Module[
113   {
114       L, Q, P,  $\zeta$ , z, zs, Zs, c, ys,  $\eta$ s, lt,
115       zrule, Zrule,  $\zeta$ rule, Q1, EEQ, EQ, U
116   },
117   zs = Dual/@ $\zeta$ s;
118   {L, Q, P} = Through[{getL, getQ, getP}@pg];
119   Zs = zs /. {b -> B, t -> T,  $\alpha$  -> A};
120   c = CF[L/.Alternatives@@Union[ $\zeta$ s,
       $\hookrightarrow$  zs]->0/.Alternatives@@Zs -> 1];
121   ys = CF/@Table[D[L, $\zeta$ ]/.Alternatives@@zs->0,{ $\zeta$ , $\zeta$ s}];
122    $\eta$ s = CF/@Table[D[L,z]/.Alternatives@@ $\zeta$ s->0,{z,zs}];
123   lt = CF/#&/@Inverse@Table[
124        $\delta$ [z, Dual[ $\zeta$ ]] - D[L,z, $\zeta$ ],
125       { $\zeta$ , $\zeta$ s},{z,zs}
126   ];
127   zrule = Thread[zs -> CF/@(lt . (zs + ys))];
128   Zrule = Join[zrule, zrule /.
129       r_Rule := ( (U = r[[1]] /. {b -> B, t -> T,  $\alpha$ 
       $\hookrightarrow$  -> A}) ->
      (U /. U2l /. r //. l2U))
130 ]

```



```

131 ];
132  $\mathbb{N}[\text{Zeta}]$ rule = Thread[ $\mathbb{N}[\text{Zeta}]$ s ->  $\mathbb{N}[\text{Zeta}]$ s +  $\mathbb{N}[\text{Eta}]$ s .
       $\hookrightarrow$  lt];
133 Q1 = Q /. Union[Zrule,  $\zeta$ rule];
134 EEQ[ps___] :=
135     EEQ[ps] = (
136         CF[E^-Q1 DD[E^Q1, Thread[{zs, {ps}}]]] /.
137         {Alternatives@@zs -> 0,
           $\hookrightarrow$  Alternatives @@Zs -> 1}]
138     );
139 CF@toPG[
140     c +  $\eta$ s.lt.ys,
141     Q1 /. {Alternatives@@zs -> 0, Alternatives@@Zs
       $\hookrightarrow$  -> 1},
142     Det[lt] (Zip[ $\zeta$ s][EQ@@zs) (P /.
       $\hookrightarrow$  Union[Zrule,  $\zeta$ rule]))] /.
143     Derivative[ps___][EQ][___] := EEQ[ps] /.
       $\hookrightarrow$  _EQ -> 1
144 )
145 ]
146
147 ]

```

The function `Pair` combines the above zipping functions into the final contraction map.

```

148 Pair[{}][L_PG, R_PG] := L R;
149 Pair[is_List][L_PG, R_PG] := Module[{n},
150     Times[
151         L /. ((v: b|B|t|T|a|x|y)[#] -> v[n@#]&/@is),
152         R /. ((v:  $\beta$ | $\tau$ | $\alpha$ |A| $\xi$ | $\eta$ )[#] -> v[n@#]&/@is)
153     ] // LZip[Join@@Table[Through[{ $\beta$ ,  $\tau$ , a}[n@i]], {i, is}]]
       $\hookrightarrow$  //
154     QZip[Join@@Table[Through[{ $\xi$ , y}[n@i]], {i, is}]]
155 ]

```

Our next task is to provide domain and codomain information for the PG-objects. These will be packaged inside a GDO, (Gaußian Differential Operator).

The four lists' names refer to whether it is a domain or a codomain, and whether the index corresponds to an open strand or a closed one.

```

156 toGDO[do_List,dc_List,co_List,cc_List,L_,Q_,P_] := GDO[
157     "do" -> do,
158     "dc" -> dc,
159     "co" -> co,
160     "cc" -> cc,
161     "PG" -> toPG[L, Q, P]
162 ]
163
164 toGDO[do_List,dc_List,co_List,cc_List,pg_PG] := GDO[
165     "do" -> do,
166     "dc" -> dc,
167     "co" -> co,
168     "cc" -> cc,
169     "PG" -> pg
170 ]

```

Next are defined functions for accessing and modifying sub-parts of GDO-objects. The last argument of Lookup is the default value if nothing is specified. This means that a morphism with empty domain or codomain may be specified as such by omitting that portion of the definition.

```

171 getDO[gdo_GDO] := Lookup[Association@@gdo, "do", {}]
172 getDC[gdo_GDO] := Lookup[Association@@gdo, "dc", {}]
173 getCO[gdo_GDO] := Lookup[Association@@gdo, "co", {}]
174 getCC[gdo_GDO] := Lookup[Association@@gdo, "cc", {}]
175
176 getPG[gdo_GDO] := Lookup[Association@@gdo, "PG", PG[]]
177
178 getL[gdo_GDO] := gdo//getPG//getL
179 getQ[gdo_GDO] := gdo//getPG//getQ
180 getP[gdo_GDO] := gdo//getPG//getP
181
182 setPG[pg_PG][gdo_GDO] := setValue[pg, gdo, "PG"]
183
184 setL[L_][gdo_GDO] := setValue[setL[L][gdo//getPG], gdo, "PG"]

```

```

185 setQ[Q_][gdo_GD0] := setValue[setQ[Q][gdo//getPG], gdo, "PG"]
186 setP[P_][gdo_GD0] := setValue[setP[P][gdo//getPG], gdo, "PG"]
187
188 setD0[do_][gdo_GD0] := setValue[do, gdo, "do"]
189 setDC[dc_][gdo_GD0] := setValue[dc, gdo, "dc"]
190 setC0[co_][gdo_GD0] := setValue[co, gdo, "co"]
191 setCC[cc_][gdo_GD0] := setValue[cc, gdo, "cc"]
192
193 applyToD0[f_][gdo_GD0] := gdo//setD0[gdo//getD0//f]
194 applyToDC[f_][gdo_GD0] := gdo//setDC[gdo//getDC//f]
195 applyToC0[f_][gdo_GD0] := gdo//setC0[gdo//getC0//f]
196 applyToCC[f_][gdo_GD0] := gdo//setCC[gdo//getCC//f]
197
198 applyToPG[f_][gdo_GD0] := gdo//setPG[gdo//getPG//f]
199
200 applyToL[f_][gdo_GD0] := gdo//setL[gdo//getL//f]
201 applyToQ[f_][gdo_GD0] := gdo//setQ[gdo//getQ//f]
202 applyToP[f_][gdo_GD0] := gdo//setP[gdo//getP//f]

```

The canonical form function (CF) and the contraction mapping (Pair) we extend to include GD0-objects. Furthermore, on the level of GD0-objects we can compose morphisms and keep track of the corresponding domains and codomains, using the left-to-right composition operator “//”.

```

203 CF[e_GD0] := e//
204     applyToD0[Union]//
205     applyToDC[Union]//
206     applyToC0[Union]//
207     applyToCC[Union]//
208     applyToPG[CF]
209
210 Pair[is_List][gdo1_GD0, gdo2_GD0] := GD0[
211     "do" -> Union[gdo1//getD0, Complement[gdo2//getD0,
212         ↪ is]],
213     "dc" -> Union[gdo1//getDC, gdo2//getDC],
214     "co" -> Union[gdo2//getC0, Complement[gdo1//getC0,
215         ↪ is]],
216     "cc" -> Union[gdo1//getCC, gdo2//getCC],

```

```

215         "PG" -> Pair[is][gdo1//getPG, gdo2//getPG]
216     ]
217
218     gdo1_GDO // gdo2_GDO :=
        ⇨ Pair[Intersection[gdo1//getC0,gdo2//getD0]][gdo1,gdo2];

```

We also define notions of equality and multiplication (by concatenation) for GDO's.

```

219 GDO /: Congruent[gdo1_GDO, gdo2_GDO] := And[
220     Sort@*getD0/@Equal[gdo1, gdo2],
221     Sort@*getDC/@Equal[gdo1, gdo2],
222     Sort@*getC0/@Equal[gdo1, gdo2],
223     Sort@*getCC/@Equal[gdo1, gdo2],
224     Congruent[gdo1//getPG, gdo2//getPG]
225 ]
226
227 GDO /: gdo1_GDO gdo2_GDO := GDO[
228     "do" -> Union[gdo1//getD0, gdo2//getD0],
229     "dc" -> Union[gdo1//getDC, gdo2//getDC],
230     "co" -> Union[gdo1//getC0, gdo2//getC0],
231     "cc" -> Union[gdo1//getCC, gdo2//getCC],
232     "PG" -> (gdo1//getPG)*(gdo2//getPG)
233 ]

```

For the sake of compatibility with Bar-Natan and van der Veen's program, we introduce several conversion functions between the two notations.

```

234 setEpsilonDegree[k_Integer][gdo_GDO] :=
235     setP[Series[Normal@getP@gdo,{ϵ,0,k}]] [gdo]
236
237 fromE[Subscript[⏟[DoubleStruckCapitalE],{do_List,
        ⇨ dc_List}->{co_List, cc_List}][
238     L_, Q_, P_
239 ]] := toGDO[do, dc, co, cc, fromE[⏟[DoubleStruckCapitalE][L, Q,
        ⇨ P]]]
240
241 fromE[Subscript[⏟[DoubleStruckCapitalE], dom_List->cod_List][
242     L_, Q_, P_

```

```

243 ]] := GD0["do" -> dom, "co" -> cod,
244         "PG" -> fromE[\[DoubleStruckCapitalE][L, Q, P]]
245 ]

```

It is at this point that we implement the morphisms of the algebra U . Each operation is prepended with a “c” to emphasize that this is a classical algebra, not a quantum deformation.

```

246 fromLog[l_] := CF@Module[
247     {L, l0 = Limit[l, \epsilon->0]},
248     L = l0 /. (\eta|y|\xi|x)[_]->0;
249     PG[
250         "L" -> L,
251         "Q" -> l0 - L
252     ]/.l2U
253 ]
254
255 c\Lambda = (\eta[i] + E^(-\gamma \alpha[i] - \epsilon \beta[i]) \eta[j]/(1+\gamma \epsilon \eta[j]\xi[i])) y[k] +
256           (\beta[i] + \beta[j] + Log[1 + \gamma \epsilon \eta[j]\xi[i]]/\epsilon) b[k] +
257           (\alpha[i] + \alpha[j] + Log[1 + \gamma \epsilon \eta[j]\xi[i]]/\gamma) a[k] +
258           (\xi[j] + E^(-\gamma \alpha[j] - \epsilon \beta[j]) \xi[i]/(1+\gamma \epsilon \eta[j]\xi[i])) x[k];
259
260 cm[i_, j_, k_] = GD0["do" -> {i,j}, "co" -> {k}, "PG" ->
    \hookrightarrow fromLog[c\Lambda]];
261
262 c\eta[i_] = GD0["co" -> {i}];
263 co[i_, j_] = GD0["do"->{i}, "co"->{j},
264     "PG"->fromLog[\beta[i] b[j] + \alpha[i] a[j] + \eta[i] y[j] + \xi[i]
    \hookrightarrow x[j]]
265 ];
266 ce[i_] = GD0["do" -> {i}];
267 c\Delta[i_, j_, k_] = GD0["do"->{i}, "co"->{j, k},
268     "PG" -> fromLog[
269         \beta[i](b[j] + b[k]) +
270         \alpha[i](a[j] + a[k]) +
271         \eta[i](y[j] + y[k]) +
272         \xi[i](x[j] + x[k])
273     ]

```

```

274 ];
275
276 sY[i_, j_, k_, l_, m_] = GD0["do" -> {i}, "co" -> {j, k, l, m},
277   "PG" -> fromLog[ $\beta[i]b[k] + \alpha[i]a[l] + \eta[i]y[j] +$ 
278      $\hookrightarrow \xi[i]x[m]$ ]
279 ];
280 sS[i_] = GD0["do" -> {i}, "co" -> {i},
281   "PG" -> fromLog[ $-(\beta[i]b[i] + \alpha[i]a[i] + \eta[i]y[i] +$ 
282      $\hookrightarrow \xi[i]x[i])$ ]
283 ];
284 cS[i_] = sS[i] // sY[i, 1, 2, 3, 4] // cm[4, 3, i] // cm[i, 2,
285    $\hookrightarrow i]$  // cm[i, 1, i];
286 cR[i_, j_] = GD0[
287   "co" -> {i, j},
288   "PG" -> toPG[ $\hbar a[j]b[i], (B[i]-1)/(-b[i])x[j]y[i],$ 
289      $\hookrightarrow 1]$ 
290 ];
291 cRi[i_, j_] = GD0[
292   "co" -> {i, j},
293   "PG" -> toPG[ $-\hbar a[j]b[i], (B[i]-1)/(B[i]b[i])x[j]$ 
294      $\hookrightarrow y[i], 1]$ 
295 ];
296 CC[i_] := GD0["co" -> {i}, "PG" -> PG["P" ->  $B[i]^{(1/2)}$ ]]
297 CCi[i_] := GD0["co" -> {i}, "PG" -> PG["P" ->  $B[i]^{(-1/2)}$ ]]
298
299 cKink[i_] = Module[{k}, cR[i, k] CCi[k] // cm[i, k, i]]
300 cKinki[i_] = Module[{k}, cRi[i, k] CC[k] // cm[i, k, i]]
301
302 cKinkn[0][i_] =  $\eta[i]$ 
303 cKinkn[1][i_] = cKink[i]
304 cKinkn[-1][i_] = cKinki[i]

```

```

305 cKinkn[n_Integer][i_] :=
    ↳ Module[{j}, cKinkn[n-1][i] cKink[j] // cm[i, j, i] //; n > 1
306 cKinkn[n_Integer][i_] :=
    ↳ Module[{j}, cKinkn[n+1][i] cKink[i] // cm[i, j, i] //; n < -1
307
308 uR[i_, j_] = Module[{k}, cR[i, j] cKink[k] // cm[i, k, i]]
309 uRi[i_, j_] = Module[{k}, cRi[i, j] cKink[k] // cm[i, k, i]]

```

A.2 IMPLEMENTATION OF THE TRACE

Now we implement the trace. We introduce several functions which extract the various coefficients of a GDO, so that we may apply equation (3.18). Coefficients are extracted based on whether they belong to the matrix L or the matrix Q.

```

310 getConstLCoef::usage = "getConstLCoef[i][gdo] returns the terms
    ↳ in the L-portion of a GDO expression which are not a
    ↳ function of y[i], b[i], a[i], nor x[i]."
311 getConstLCoef[i_][gdo_] :=
312     (SeriesCoefficient[#, {b[i], 0, 0}] &) @*
313     (Coefficient[#, y[i], 0] &) @*
314     (Coefficient[#, a[i], 0] &) @*
315     (Coefficient[#, x[i], 0] &) @*
316     ReplaceAll[U2l] @*
317     getL@
318     gdo
319
320 getConstQCoef::usage = "getConstQCoef[i][gdo] returns the terms
    ↳ in the Q-portion of a GDO expression which are not a
    ↳ function of y[i], b[i], a[i], nor x[i]."
321 getConstQCoef[i_][gdo_][bb_] :=
322     ReplaceAll[{b[i] -> bb}] @*
323     (Coefficient[#, y[i], 0] &) @*
324     (Coefficient[#, a[i], 0] &) @*
325     (Coefficient[#, x[i], 0] &) @*
326     ReplaceAll[U2l] @*
327     getQ@

```

```

328         gdo
329
330     getyCoef::usage = "getyCoef[i][gdo][b[i]] returns the linear
    ↪ coefficient of y[i] as a function of b[i]."
331     getyCoef[i_][gdo_][bb_] :=
332         ReplaceAll[{b[i]->bb}] @*
333         ReplaceAll[U2l] @*
334         (Coefficient[#, x[i],0]&) @*
335         (Coefficient[#, y[i],1]&) @*
336         getQ@
337         gdo
338
339     getbCoef::usage = "getbCoef[i][gdo] returns the linear
    ↪ coefficient of b[i]."
340     getbCoef[i_][gdo_] :=
341         (SeriesCoefficient[#, {b[i],0,1}]&) @*
342         (Coefficient[#, a[i],0]&) @*
343         (Coefficient[#, x[i],0]&) @*
344         (Coefficient[#, y[i],0]&) @*
345         ReplaceAll[U2l] @*
346         getL@
347         gdo
348
349     getPCoef::usage = "getPCoef[i][gdo] returns the perturbation P
    ↪ of a GDO as a function of b[i]."
350     getPCoef[i_][gdo_][bb_] :=
351         ReplaceAll[{b[i]->bb}] @*
352         (Coefficient[#, a[i],0]&) @*
353         (Coefficient[#, x[i],0]&) @*
354         (Coefficient[#, y[i],0]&) @*
355         ReplaceAll[U2l] @*
356         getP@
357         gdo
358
359     getaCoef::usage = "getaCoef[i][gdo] returns the linear
    ↪ coefficient of a[i]."

```



```

360 getaCoef[i_][gdo_] :=
361     (SeriesCoefficient[#, {b[i],0,0}]&) @*
362     (Coefficient[#, a[i],1]&) @*
363     ReplaceAll[U2l] @*
364     getL@
365     gdo
366
367 getxCof::usage = "getxCof[i][gdo][b[i]] returns the linear
    ↪ coefficient of x[i] as a function of b[i]."
368 getxCof[i_][gdo_][bb_] :=
369     ReplaceAll[{b[i]->bb}] @*
370     ReplaceAll[U2l] @*
371     (Coefficient[#, y[i],0]&) @*
372     (Coefficient[#, x[i],1]&) @*
373     getQ@
374     gdo
375
376 getabCof::usage = "getabCof[i][gdo] returns the linear
    ↪ coefficient of a[i]b[i]."
377 getabCof[i_][gdo_] :=
378     (SeriesCoefficient[#, {b[i],0,1}]&) @*
379     (Coefficient[#, a[i],1]&) @*
380     ReplaceAll[U2l] @*
381     getL@
382     gdo
383
384 getxyCof::usage = "getxyCof[i][gdo][b[i]] returns the linear
    ↪ coefficient of x[i]y[i] as a function of b[i]."
385 getxyCof[i_][gdo_][bb_] :=
386     ReplaceAll[{b[i]->bb}] @*
387     ReplaceAll[U2l] @*
388     (Coefficient[#, x[i],1]&) @*
389     (Coefficient[#, y[i],1]&) @*
390     getQ@
391     gdo

```

In order to run more efficiently, limits are first computed by direct evaluation, unless such an operation is ill-defined. In such a case, the corresponding series is computed and evaluated at the limit point.

```

392 safeEval[f_][x_] := Module[{fx, x0},
393     If[(fx=Quiet[f[x]]) === Indeterminate,
394         Series[f[x0],{x0,x,0}]/Normal,
395         fx
396     ]
397 ]
398
399 closeComponent[i_][gdo_GD0]:=gdo//
400     setC0[Complement[gdo//getC0,{i}]]//
401     setCC[Union[gdo//getCC,{i}]]

```

Now we come to the implementation of the trace map. The current implementation requires that the coefficient of $a_i b_i$ be zero. (See chapter 4 for how this restriction limits computability.)

```

402 tr::usage = "tr[i] computes the trace of a GDO element on
↪ component i. Current implementation assumes the Subscript[a,
↪ i] Subscript[b, i] term vanishes and $k=0."
403 tr::nonzeroSigma = "tr[`1`]: Component `1` has writhe: `2`,
↪ expected: 0."
404 tr[i_][gdo_GD0] := Module[
405     {
406         cL = getConstLCoef[i][gdo],
407         cQ = getConstQCoef[i][gdo],
408         βP = getPCoef[i][gdo],
409         ηη = getyCoef[i][gdo],
410         ββ = getbCoef[i][gdo],
411         αα = getaCoef[i][gdo],
412         ξξ = getxCoef[i][gdo],
413         λ = getxyCoef[i][gdo],
414         ta
415     },
416     ta = (1-Exp[-αα]) z[i];
417     expL = cL + αα w[i] + ββ ta;

```

```

418     expQ = safeEval[cQ[#] + z[i]ηη[#]ξξ[#]/(1-z[i]
      ↪ λ[#])&][ta];
419     expP = safeEval[βP[#]/(1-z[i] λ[#])&][ta];
420
      ↪ CF[(gdo//closeComponent[i]//setL[expL]//setQ[expQ]//setP[expP])//.12U]
421 ] /; Module[
422   {σ = getabCoef[i][gdo]},
423   If[σ == 0,
424     True,
425     Message[tr::nonzeroSigma, i, ToString[σ]];
      ↪ False
426   ]
427 ]

```

Here we introduce some formatting to display the output more aesthetically.

```

428 Format[gdo_GD0] := Subsuperscript[⏟[DoubleStruckCapitalE],
429   Row[{gdo//getC0, ",", gdo//getCC}],
430   Row[{gdo//getD0, ",", gdo//getDC}]
431 ][gdo//getL, gdo//getQ, gdo//getP];
432 Format[pg_PG] := ⏟[DoubleStruckCapitalE][pg//getL, pg//getQ,
      ↪ pg//getP];
433
434 SubscriptFormat[v_] := (Format[v[i_]] := Subscript[v, i]);
435
436 SubscriptFormat/@{y,b,t,a,x,z,w,η,β,α,ξ,A,B,T,W};

```

Implementing the full invariant

Now we are in a position to implement the Z invariant to tangles with a closed component. We begin by defining an object representing an isolated strand with arbitrary integer rotation number, CCn:

```

437 CCn[i_][n_Integer] := Module[{j},
438   If[n==0,
439     GD0["co" -> {i}],
440     If[n>0,
441       If[n==1,

```

```

442         CC[i],
443         CC[j]//CCn[i][n-1]//cm[i,j,i]
444     ],
445     If[n== -1,
446         CCi[i],
447         CCi[j]//CCn[i][n+1]//cm[i,j,i]
448     ]
449 ]
450 ]
451 ]

```

Since multiplication is associative, we may implement a generalized multiplication which can take any number of arguments. It is also named `cm`, with a first argument given as an ordered list of indices to be concatenated.

```

452 cm[{}, j_] := cη[j]
453 cm[{i_}, j_] := cσ[i,j]
454 cm[{i_, j_}, k_] := cm[i,j,k]
455 cm[ii_List, k_] := Module[
456     {
457         i = First[ii],
458         is = Rest[ii],
459         j ,
460         js ,
461         l
462     },
463     j = First[is];
464     js = Rest[is];
465     cm[i,j,l] // cm[Prepend[js, l], k]
466 ]

```

The function `toGDO` serves as the invariant for the generators of the tangles. We define its value on crossings and on concatenations of elements.

```

467 toGDO[Xp[i_,j_]] := cR[i,j]
468 toGDO[Xm[i_,j_]] := cRi[i,j]
469 toGDO[xs_Strand] := cm[List@@xs, First[xs]]
470 toGDO[xs_Loop]   := Module[{x = First[xs]}, cm[List@@xs,
    ↪ x]//tr[x]]

```

```

471
472 getIndices[RVT[cs_List, _List, _List]] :=
    ↪ Sort@Catenate@(List@@@cs)
473
474 TerminalQ[cs_List][i_] := MemberQ[Last/@cs,i];
475 next[cs_List][i_] := If[TerminalQ[cs][i],
476     Nothing,
477     Extract[cs, ((#/.{c_,j_}->{c,j+1}& )@FirstPosition[i]@cs)]
478 ]
479
480 InitialQ[cs_List][i_] := MemberQ[First/@cs,i];
481 prev[cs_List][i_] := If[InitialQ[cs][i],
482     Nothing,
483     Extract[cs, ((#/.{c_,j_}->{c,j-1}& )@FirstPosition[i]@cs)]
484 ]

```

To minimize the size of computations, whenever adjacent indices are present in the partial computation, they are to be concatenated before more crossings are introduced.

```

485 MultiplyAdjacentIndices[{cs_List, calc_GD0}] := Module[
486     { is=getC0[calc]
487     , i
488     , i2
489     },
490     i = SelectFirst[is, MemberQ[is, next[cs][#]]&];
491     If[Head[i]===Missing,
492         {cs, calc},
493         i2 = next[cs][i];
494         {DeleteCases[cs, i2, 2], calc//cm[i, i2, i]}
495     ]
496 ]
497
498 MultiplyAllAdjacentIndices[{cs_List, calc_GD0}] :=
499     FixedPoint[MultiplyAdjacentIndices, {cs, calc}]
500
501 generateGD0FromXing[x:_Xp|_Xm, rs_Association] := Module[
502     {p, i, j, in, jn},

```

```

503     {i,j} = List@@x;
504     {in,jn} = Lookup[rs,{i,j},0];
505     toGD0[x]*CCn[p[i]][in]*CCn[p[j]][jn]
        ↪ //cm[p[i],i,i]//cm[p[j],j,j]
506 ]
507
508 addRotsToXingFreeStrands[rvt_RVT] := GD0[] * Times @@ (
509     CCn[#][Lookup[rvt[[3]], #, 0]] & /@
510     First /@ Select[rvt[[1]], Length@# == 1 &]
511 )

```

Next we implement the framed link invariant ZFramed.

```

512 ZFramedStep[{_List,{},_Association,calc_GD0]}:={{},{},<|>,calc};
513 ZFramedStep[{cs_List,xs_List,rs_Association,calc_GD0]}:=Module[
514     { x=First[xs], xss=Rest[xs]
515     , csOut, calcOut
516     , new
517     },
518     new=calc*generateGD0FromXing[x,rs];
519     {csOut,calcOut} = MultiplyAllAdjacentIndices[{cs,new}];
520     {csOut,xss,rs,calcOut}
521 ]
522
523 ZFramed[rvt_RVT] := Last@FixedPoint[ZFramedStep, {Sequence @@
    ↪ rvt,
524     addRotsToXingFreeStrands[rvt]}}]
525 ZFramed[L_] := ZFramed[toRVT@L]

```

Finally, when we wish to consider the unframed invariant, we apply the function Unwrithe, defined below.

```

526 Z[rvt_RVT] := Unwrithe@Last@FixedPoint[ZFramedStep, {Sequence
    ↪ @@ rvt, GD0[]}]
527 Z[L_] := Z[toRVT@L]
528
529 combineBySecond[l_List] := mergeWith[Total,#]& /@ GatherBy[l,
    ↪ First];
530 combineBySecond[lis___] := combineBySecond[Join[lis]]

```

```

531
532 mergeWith[f_, l_] := {l[[1, 1]], f@(#[[2]] & /@ l)}
533
534 Reindex[RVT[cs_, xs_, rs_]] := Module[
535   {
536     sf,
537     cs2, xs2, rs2,
538     repl, repl2
539   },
540   sf = Flatten[List@@#&/@cs];
541   repl = (Thread[sf -> Range[Length[sf]]]);
542   repl2 = repl /. {(a_ -> b_) -> ({a, i_} -> {b, i})};
543   cs2 = cs /. repl;
544   xs2 = xs /. repl;
545   rs2 = rs /. repl2;
546   RVT[cs2, xs2, rs2]
547 ]
548
549 UnwritheComp[i_][gdo_GD0] := Module[
550   {n = gdo//getL//SeriesCoefficient[#, {a[i]b[i], 0, 1}]&,
551     ↪ j},
552   gdo//(cKinkn[-n][j])//cm[i, j, i]
553 ]
554
555 Unwrithe[gdo_GD0] := (Composition@@(UnwritheComp/@@(gdo//getC0)))@gdo
556
557 toRVT[L_RVT] := L

```

The partial trace is what we use to close a subset of the strands in a tangle. It takes the trace of all but one component, then returns the collection of all such ways of leaving one component open. (As described in ??).

```

557 ptr[L_RVT] := Module[
558   {
559     ZL = Z[L],
560     cod
561   },
562   cod = getC0@ZL;

```

```

563      Table[(Composition@@Table[tr[j],
      ↪ {j, Complement[cod, {i}]}])[ZL], {i, cod}]
564 ]
565 ptr[L_] := ptr[toRVT[L]]

```

In order to be able to compare GDO's properly, we require a way to canonically represent them. This is achieved by reindexing the strands of the link and selecting one who's resulting invariant comes first in an (arbitrarily-selected) order, in this case the built-in ordering of expressions as defined by Mathematica™.

```

566 getGDOIndices[gdo_GDO] := Sort@Catenate@Through[{getD0, getDC,
      ↪ getC0, getCC}@gdo]
567
568 isolateVarIndices[i_ -> j_] :=
      ↪ (v: y|b|t|a|x|η|β|α|ξ|A|B|T|w|z|W)[i] -> v[j];
569
570 ReindexBy[f_][gdo_GDO] := Module[
571   {
572     replacementRules,
573     varIndexFunc,
574     repFunc,
575     indices = getGDOIndices[gdo]
576   },
577   replacementRules = Thread[indices -> (f/@indices)];
578   repFunc = ReplaceAll[replacementRules];
579   varIndexFunc =
      ↪ ReplaceAll[Thread[isolateVarIndices[replacementRules]]];
580   gdo//applyToPG[varIndexFunc]//
581     applyToC0[repFunc]//
582     applyToD0[repFunc]//
583     applyToDC[repFunc]//
584     applyToCC[repFunc]
585 ]
586
587 fromAssoc[ass_] := Association[ass][#] &
588
589 ReindexToInteger[gdos_List] := Module[

```



```

590     {is = getGD0Indices@gdos[[1]], f},
591     f = fromAssoc@Thread[is -> Range[Length[is]]];
592     ReindexBy[f]/@gdos
593 ]
594
595 getReindications[gdos_List] := Module[
596     {
597         gdosInt = ReindexToInteger[gdos],
598         is,
599         fs,
600         ls
601     },
602     is = getGD0Indices[gdosInt[[1]]];
603     fs = (fromAssoc@*Association@*Thread)/@{is -> # & /@
        ↪ Permutations[is]};
604     ls = CF@ReindexBy[#]/@gdosInt&/@fs;
605     Sort[Sort/@ls]
606 ]
607
608 getCanonicalIndex[gdo_] := First@getReindications@gdo
609
610 deleteIndex[i_][expr_] := SeriesCoefficient[expr/.U2l, Sequence
        ↪ @@ ({#[i], 0, 0} & /@ {
611     y, b, t, a, x, z, w
612 })]/.l2U

```

Here we introduce functions to further verify the co-algebra structure of a traced ribbon meta-Hopf algebra. In particular, the counit is responsible for deleting a strand. This has further applications in determining whether the invariants of individual components are contained in those of more complex links.

```

613 deleteIndexPG[i_][pg_PG] := pg//
614     applyToL[deleteIndex[i]]//
615     applyToQ[deleteIndex[i]]//
616     applyToP[deleteIndex[i]]
617
618 deleteLoop[i_][gdo_] := gdo//

```

```

619         applyToCC[Complement[#, {i}]]&]//
620         applyToPG[deleteIndexPG[i]]

```

A.3 IMPLEMENTATION OF ROTATION NUMBER ALGORITHM

RVTs for knots

Describe algorithm previously developed for knots

Extending the algorithm to multiple components

Given a classical link, there is a unique Rotational Virtual Link ([RVL](#)) corresponding to it. Given a classical link diagram, one may obtain the corresponding [RVL](#) by attaching an appropriate rotation number to each arc. However, there is not a unique way to do so.

The situation becomes more complicated when one considers the case where the tangle has an open component. In this case, two [RVT](#) diagrams which correspond to the same classical link exactly when they differ only by a sequence of rotational Reidemeister moves and a modification of the rotation numbers of the (two) unbounded arcs. Equivalently, we have the statement:

Lemma A.1. *For each classical tangle with one open component, there exists a unique [RVT](#) whose unbounded arcs have rotation numbers 0.*

Proof. See [\[BNvdV\]](#). □

Bar-Natan and van der Veen develop an algorithm to convert a classical long knot into an [RVT](#). As we are interested in links, we must extend this algorithm to include so-called “long links”, which we outline below:

1. Pass a front over the beginning of the open strand.
2. Progressively absorb the leftmost crossings
 - 2a. As crossings are absorbed,
 - take into account any rotations of arcs.
3. If an arc passes through the front twice, absorb it, taking into account any rotations of that arc as a result.

This is a Haskell implementation of the algorithm `toRVT` which takes a classical tangle and produces a rotational tangle by computing a compatible choice of rotation numbers for each arc.

We begin with a series of imports of common functions, relating to list manipulations and type-wrangling. The exact details are not too important.

```

1 {-# LANGUAGE DeriveFunctor #-}
2 module KnotTheory.PD where
3 import Data.Maybe (listToMaybe, catMaybes, mapMaybe, fromMaybe,
4   ↪ fromJust)
5 import Data.List (find, groupBy, sortOn, partition, intersect,
6   ↪ union, (\\))
7 import Data.Tuple (swap)
8 import Data.Function (on)
9 import Control.Monad ((>=>))
10 import Control.Arrow ((>>>))

```

Next, we introduce the crossing type, which can be either positive `Xp` or negative `Xm` (using the mnemonic “plus” and “minus”):

```

9 type Index = Int
10 data Xing i = Xp i i | Xm i i -- | Xv i i
11   deriving (Eq, Show, Functor)

```

We define several functions which extract basic data from a crossing.

```

12 sign :: (Integral b) => Xing Index -> b
13 sign (Xp _ _) = 1
14 sign (Xm _ _) = -1
15
16 isPositive :: Xing i -> Bool
17 isPositive (Xp _ _) = True
18 isPositive (Xm _ _) = False
19
20 isNegative :: Xing i -> Bool
21 isNegative (Xp _ _) = False
22 isNegative (Xm _ _) = True
23
24 overStrand :: Xing i -> i

```

```

25 overStrand (Xp i _) = i
26 overStrand (Xm i _) = i
27
28 underStrand :: Xing i -> i
29 underStrand (Xp _ i) = i
30 underStrand (Xm _ i) = i

```

Next, we introduce the notion of a planar diagram, whose data is comprised of a collection of **Strands** and **Loops** (indexed by some type **i**, typically an integer). The **Skeleton** of a planar diagram is defined to be the collection of **Components**, each of which is either an open **Strand** or a closed **Loop**.

```

31 type Strand i = [i]
32 type Loop i = [i]
33 data Component i = Strand (Strand i) | Loop (Loop i)
34   deriving (Eq, Show, Functor)
35
36 type Skeleton i = [Component i]

```

Next, we introduce the notion of a **KnotObject**, which has its components labelled by the same type **i**. We further define a function **toRVT** which converts a generic **KnotObject** into an **RVT**. We call an object a planar diagram (or **PD**) if it has a notion of **Skeleton** and a collection of crossings.

```

37 class KnotObject k where
38   toSX  :: (Ord i) => k i -> SX i
39   toRVT :: (Ord i) => k i -> RVT i
40   toRVT = toRVT . toSX
41
42 class PD k where
43   skeleton :: k i -> Skeleton i
44   xings    :: k i -> [Xing i]
45

```

The **SX** form of a diagram just contains the **Skeleton** and the **Xings** (crossings), while the **RVT** form also assigns each arc an integral rotation number.

```

46 data SX i = SX (Skeleton i) [Xing i] deriving (Show, Eq,
   ⇨ Functor)
47 data RVT i = RVT (Skeleton i) [Xing i] [(i,Int)] deriving (Show,
   ⇨ Eq, Functor)

```

Given any labelling of the arcs in a diagram, we can re-label the arcs using consecutive whole numbers. This is accomplished with `reindex`:

```

48 reindex :: (PD k, Functor k, Eq i) => k i -> k Int
49 reindex k = fmap (fromJust . flip lookup table) k
50   where
51     table = zip (skeletonIndices s) [1..]
52     s = skeleton k

```

Most importantly, we now declare that a diagram expressed in **SX** form (that is, without any rotation data) may be assigned rotation numbers to each of its arcs in a meaningful way. The bulk of the work is done by `getRotNums`, which is defined farther below. We handle the case where the entire tangle is a single crossingless strand separately.

```

53 instance KnotObject SX where
54   toSX = id
55   toRVT k@(SX cs xs) = RVT cs xs rs where
56     rs = filter ((/=0) . snd) . mergeBy sum $ getRotNums k fl
57     il = head . toList $ s
58     Just s = find isStrand cs
59     fl = case next il (toList s) of
60         Just _ -> [(Out,il)]
61         Nothing -> []
62
63 instance KnotObject RVT where
64   toRVT = id
65   toSX (RVT s xs _) = SX s xs
66
67 instance PD SX where
68   skeleton (SX s _) = s
69   xings (SX _ xs) = xs
70
71 instance PD RVT where
72   skeleton (RVT s _ _) = s
73   xings (RVT _ xs _) = xs

```

Next, we include a series of functions which answer basic questions about planar diagrams. Note in `rotnum`, if a rotation number is not present in the table of values, it is assumed to be 0.

```

74  rotnums :: RVT i -> [(i,Int)]
75  rotnums (RVT _ _ rs) = rs
76
77  rotnum :: (Eq i) => RVT i -> i -> Int
78  rotnum k i = fromMaybe 0 . lookup i . rotnums $ k
79
80  isStrand :: Component i -> Bool
81  isStrand (Strand _) = True
82  isStrand _         = False
83
84  isLoop :: Component i -> Bool
85  isLoop (Loop _) = True
86  isLoop _       = False
87
88  toList :: Component i -> [i]
89  toList (Strand is) = is
90  toList (Loop is)   = is
91
92  skeletonIndices :: Skeleton i -> [i]
93  skeletonIndices = concatMap toList
94
95  involves :: (Eq i) => Xing i -> i -> Bool
96  x `involves` k = k `elem` [underStrand x, overStrand x]
97
98  otherArc :: (Eq i) => Xing i -> i -> Maybe i
99  otherArc x i
100    | i == o      = Just u
101    | i == u      = Just o
102    | otherwise   = Nothing
103    where o = overStrand x
104          u = underStrand x
105
106  next :: (Eq i) => i -> Strand i -> Maybe i

```

```

107 next e = listToMaybe . drop 1 . dropWhile (/= e)
108
109 prev :: (Eq i) => i -> Strand i -> Maybe i
110 prev e = next e . reverse
111
112 nextCyc :: (Eq i) => i -> Loop i -> Maybe i
113 nextCyc e xs = next e . take (length xs + 1). cycle $ xs
114
115 prevCyc :: (Eq i) => i -> Loop i -> Maybe i
116 prevCyc e xs = prev e . take (length xs + 1). cycle $ xs
117
118 isHeadOf :: (Eq i) => i -> [i] -> Bool
119 x `isHeadOf` ys = x == head ys
120
121 isLastOf :: (Eq i) => i -> [i] -> Bool
122 x `isLastOf` ys = x == last ys
123
124 nextComponentIndex :: (Eq i) => i -> Component i -> Maybe i
125 nextComponentIndex i (Strand is) = next i is
126 nextComponentIndex i (Loop is) = nextCyc i is
127
128 prevComponentIndex :: (Eq i) => i -> Component i -> Maybe i
129 prevComponentIndex i (Strand is) = prev i is
130 prevComponentIndex i (Loop is) = prevCyc i is
131
132 isHeadOfComponent :: (Eq i) => i -> Component i -> Bool
133 isHeadOfComponent _ (Loop _) = False
134 isHeadOfComponent i (Strand is) = i `isHeadOf` is
135
136 isLastOfComponent :: (Eq i) => i -> Component i -> Bool
137 isLastOfComponent _ (Loop _) = False
138 isLastOfComponent i (Strand is) = i `isLastOf` is
139
140 isTerminalOfComponent :: (Eq i) => Component i -> i -> Bool
141 isTerminalOfComponent c i = i `isHeadOfComponent` c || i
    ↪ `isLastOfComponent` c

```

```

142
143 isTerminalIndex :: (Eq i) => Skeleton i -> i -> Bool
144 isTerminalIndex cs i = any (`isTerminalOfComponent` i) cs
145
146 nextSkeletonIndex :: (Eq i) => Skeleton i -> i -> Maybe i
147 nextSkeletonIndex s i = listToMaybe . mapMaybe
    ↪ (nextComponentIndex i) $ s
148
149 prevSkeletonIndex :: (Eq i) => Skeleton i -> i -> Maybe i
150 prevSkeletonIndex s i = listToMaybe . mapMaybe
    ↪ (prevComponentIndex i) $ s

```

In order to obtain all the crossing indices, we must take every combination of the under- and over-strands and their following indices:

```

151 getXingIndices :: (Eq i) => Skeleton i -> Xing i -> [i]
152 getXingIndices s x = catMaybes
153     [ f a | f <- [id, (>= nextSkeletonIndex s)], a <- [o,
    ↪ u] ]
154     where o = return (overStrand x)
155           u = return (underStrand x)
156
157 δ :: (Eq a) => a -> a -> Int
158 δ x y
159   | x == y    = 1
160   | otherwise = 0
161
162 mergeBy :: (Ord i) => ([a] -> b) -> [(i,a)] -> [(i,b)]
163 mergeBy f = map (wrapIndex f) . groupBy ((==) `on` fst) .
    ↪ sortOn fst
164     where
165       wrapIndex :: ([a] -> b) -> [(i,a)] -> (i,b)
166       wrapIndex g xs@(x:_) = (fst x, g . map snd $ xs)

```

Here we come to the main function, `getRotNums`, for which we have the following requirements (not expressed in the code):

1. The diagram `k` is a $(1, n)$ -tangle (a tangle with only one open component)

2. The underlying graph of k is a planar.
3. The diagram k is a connected.

Only in this case will the function `toRVT` will then output a planar $(1, n)$ -rotational virtual tangle which corresponds to a classical (i.e. planar) diagram.

This function involves taking a simple open curve (a Jordan curve passing through infinity) called the **Front**, and passing it over arcs in the diagram. This curve is characterized by the arcs it passes through, together with their orientations. Each intersection of the **Front** with the diagram provides a different **View**, either **In** or **Out** of the **Front** when following the orientation of the intersecting arc.

```
167 type Front i = [View i]
168 type View i = (Dir, i)
```

We obtain the rotation numbers by successively passing the front across new crossings (achieved by `advanceFront`), keeping track of the rotation numbers of arcs which have already passed by the front. Once the front has passed across every crossing, all the rotation numbers have been computed.

Next, we define `converge`, which iterates a function until a fixed point is achieved.

```
169 converge :: (Eq a) => (a -> a) -> a -> a
170 converge f x
171     | x == x'    = x
172     | otherwise = converge f x'
173     where x' = f x
```

The function `convergeT` wraps `converge` in monadic transformations. In our context, the monad will be used to keep track of rotation numbers of the arcs.

```
174 convergeT :: (Monad m, Eq (m a)) => (a -> m a) -> a -> m a
175 convergeT f = return >>> converge (>= f)
```

The implementation of `getRotNums` takes a front and advances it along a diagram until no more changes occur.

```
176 getRotNums :: (Eq i) => SX i -> Front i -> [(i, Int)]
177 getRotNums k = convergeT (advanceFront k) >>> fst
```

When advancing the **Front**, we start by absorbing arcs that intersect with the front twice until the leftmost **View** no longer connects directly back to the **Front**. At this point, we can absorb a crossing into the front.

```

178 advanceFront :: (Eq i) => SX i -> Front i -> [(i,Int)], Front
    ↪ i)
179 advanceFront k = convergeT (absorbArc k) >=> absorbXing k

```

We next check for the case where the leftmost arc connects back to the **Front**. If it is pointing **Out** (and therefore connects back **In** further to the right), we adjust the rotation number of the arc by -1 . Otherwise, we leave both the **Front** and the rotation numbers unchanged.

```

180 absorbArc :: (Eq i) => SX i -> Front i -> [(i,Int)], Front i)
181 absorbArc k [] = return []
182 absorbArc k f@(f1:fs) = case f1 of
183     ( In,i):_ -> (return (i,-1), fss)
184     ( Out,i):_ -> return fss           -- No new rotation
    ↪ numbers
185     [] -> return f
186     where (f1,fss) = partition (((==) `on` snd) f1) fs

```

Our goal is to repeat this operation until we get a fixed point, which is encoded in `absorbArcs`:

```

187 absorbArcs :: (Eq i) => SX i -> Front i -> [(i,Int)], Front i)
188 absorbArcs k = convergeT (absorbArc k)

```

Absorb a crossing involves expanding one's view at an arc from looking at a crossing to all the views one gets when looking in every direction at the crossing (namely, to the left, along the arc, and to the right). The function `absorbXing` performs this task on the leftmost **View** on the **Front**. The transverse strand receives a positive rotation number if it moves from left to right. The arc receiving the rotation depends on how the crossing is oriented.

```

189 absorbXing :: (Eq i) => SX i -> Front i -> [(i,Int)], Front i)
190 absorbXing _ [] = return []
191 absorbXing k (f:fs) = (rs,newFront++fs) where
192     newFront = catMaybes [l, a, r]

```

```

193     l = lookLeft k f
194     a = lookAlong k f
195     r = lookRight k f
196     rs = case (l,f,r) of
197         (Just (In,i), (Out,_),_) -> [(i,1)]
198         (_, (In ,_), Just (Out, j)) -> [(j,1)]
199         _ -> []
200
201 data Dir = In | Out
202   deriving (Eq, Show)

```

The following functions take a **View**, returning the **View** one has when looking in the corresponding direction. Since it is possible for the resulting gaze to be merely the boundary, it is possible for these functions to return **Nothing**.

```

203 lookAlong :: (Eq i, PD k) => k i -> View i -> Maybe (View i)
204 lookAlong k (d, i) = case d of
205     Out -> sequence (Out, nextSkeletonIndex s i)
206     In  -> sequence (In , prevSkeletonIndex s i)
207   where s = skeleton k
208
209 lookSide :: (Eq i, PD k) => Bool -> k i -> View i -> Maybe
210   ↪ (View i)
211 lookSide isLeft k di@(Out,i) = do
212     x <- findNextXing k di
213     j <- otherArc x i
214     if isLeft == ((underStrand x == i) == isPositive x)
215     then return (In, j)
216     else sequence (Out, nextSkeletonIndex (skeleton k) j)
217 lookSide isLeft k (In,i) =
218     sequence (Out, prevSkeletonIndex (skeleton k) i) >=>
219     lookSide (not isLeft) k
220
221 lookLeft  :: (Eq i, PD k) => k i -> View i -> Maybe (View i)
222 lookLeft = lookSide True
223
224 lookRight :: (Eq i, PD k) => k i -> View i -> Maybe (View i)

```

```

224 lookRight = lookSide False
225
226 findNextXing :: (Eq i, PD k) => k i -> View i -> Maybe (Xing i)
227 findNextXing k (Out,i) = find (`involves` i) $ xings k
228 findNextXing k (In ,i) = do
229     i' <- prevSkeletonIndex (skeleton k) i
230     find (`involves` i') $ xings k

```

TABLE OF VALUES

Here we include the table of values for the partial trace map.

Table B.1: Values of the partial trace invariant on links up to 11 crossings.

Link	Partial trace of link
L_{2a1}	$\left(\left(e^{\frac{1}{2}e^{b_1}z_2 - \frac{z_2}{2}} \right)_{(\{1\},\{2\})}, \left(e^{\frac{1}{2}e^{b_2}z_1 - \frac{z_1}{2}} \right)_{(\{2\},\{1\})} \right)$
L_{4a1}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{2b_1}z_2 + e^{\frac{3}{2}e^{2b_1}z_2}}}{e^{e^{2b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{3z_2}{2}}} \right)_{(\{1\},\{2\})}, \left(\frac{B_2 e^{\frac{3}{2}e^{2b_2}z_1 + e^{\frac{3}{2}e^{2b_2}z_1}}}{e^{e^{2b_2}z_1 + \frac{z_1}{2}} + B_2 e^{\frac{3z_1}{2}}} \right)_{(\{2\},\{1\})} \right)$
L_{5a1}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\},\{2\})}, \left(\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 + B_2 + z_1} \right)_{(\{2\},\{1\})} \right)$
L_{6a1}	$\left(\left(\frac{B_1 \left(-e^{\frac{3}{2}e^{2b_1}z_2} \right) - e^{\frac{3}{2}e^{2b_1}z_2}}{B_1 e^{e^{2b_1}z_2 + \frac{z_2}{2}} - 2e^{e^{2b_1}z_2 + \frac{z_2}{2}} - 2B_1 e^{\frac{3z_2}{2}} + e^{\frac{3z_2}{2}}} \right)_{(\{1\},\{2\})}, \left(\frac{B_2 \left(-e^{\frac{3}{2}e^{2b_2}z_1} \right) - e^{\frac{3}{2}e^{2b_2}z_1}}{B_2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 2e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 2B_2 e^{\frac{3z_1}{2}} + e^{\frac{3z_1}{2}}} \right)_{(\{2\},\{1\})} \right)$
L_{6a2}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2 + B_1 e^{\frac{5}{2}e^{3b_1}z_2 + e^{\frac{5}{2}e^{3b_1}z_2}}}{B_1^2 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{5z_2}{2}}} \right)_{(\{1\},\{2\})}, \left(\frac{B_2^2 e^{\frac{5}{2}e^{3b_2}z_1 + B_2 e^{\frac{5}{2}e^{3b_2}z_1 + e^{\frac{5}{2}e^{3b_2}z_1}}}{B_2^2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} - B_2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} + B_2 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} + e^{e^{3b_2}z_1 + \frac{3z_1}{2}} + B_2 e^{\frac{5z_1}{2}}} \right)_{(\{2\},\{1\})} \right)$
L_{6a3}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2 + B_1 e^{\frac{5}{2}e^{3b_1}z_2 + e^{\frac{5}{2}e^{3b_1}z_2}}}{B_1^2 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{5z_2}{2}}} \right)_{(\{1\},\{2\})}, \left(\frac{B_2^2 e^{\frac{5}{2}e^{3b_2}z_1 + B_2 e^{\frac{5}{2}e^{3b_2}z_1 + e^{\frac{5}{2}e^{3b_2}z_1}}}{B_2^2 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} + B_2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} + e^{\frac{5z_1}{2}}} \right)_{(\{2\},\{1\})} \right)$
L_{7a1}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\},\{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\},\{1\})} \right)$
L_{7a2}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} + e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{-2B_1 e^{e^{2b_1}z_2 + 2z_2 + 2B_1 e^{2e^{2b_1}z_2 + z_2 + e^{3e^{2b_1}z_2 + 2e^{2b_1}z_2 + 2z_2 - 2e^{2e^{2b_1}z_2 + z_2 + B_1 e^{3z_2}}}} \right)_{(\{1\},\{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2}e^{2b_2}z_1 + B_2 e^{\frac{3}{2}e^{2b_2}z_1}}}{2B_2^2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 2B_2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} + e^{e^{2b_2}z_1 + \frac{z_1}{2}} + B_2^3 e^{\frac{3z_1}{2}} - 2B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\},\{1\})} \right)$
L_{7a3}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\},\{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 - B_2^2 + B_2^2 - B_2 + z_1} \right)_{(\{2\},\{1\})} \right)$

Continued on next page

Table B.1 – continued from previous page

Column 1	Column 2
L_{7a4}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{2B_2^2 z_1 - 4B_2 z_1 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{7a5}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{e^{b_1} z_2 + z_2} + B_1 e^{2e^{b_1} z_2} - 3B_1 e^{e^{b_1} z_2 + z_2} - e^{2e^{b_1} z_2} + e^{e^{b_1} z_2 + z_2} + B_1^2 (-e^{2z_2}) + B_1 e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{B_2^2 e^{e^{b_2} z_1 + z_1} + B_2 e^{2e^{b_2} z_1} - 3B_2 e^{e^{b_2} z_1 + z_1} - e^{2e^{b_2} z_1} + e^{e^{b_2} z_1 + z_1} + B_2^2 (-e^{2z_1}) + B_2 e^{2z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{7a6}	$\left(\left(\frac{B_1 e^{\frac{1}{2} e^{-b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 (-e^{2e^{-b_1} z_2}) + B_1^2 e^{-b_1 z_2 + z_2} + B_1 e^{2e^{-b_1} z_2} - B_1 e^{-b_1 z_2 + z_2} + e^{-b_1 z_2 + z_2} + B_1 e^{2z_2} - e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2 e^{\frac{1}{2} e^{-b_2} z_1 + \frac{3z_1}{2}}}{B_2^2 (-e^{2e^{-b_2} z_1}) + B_2^2 e^{-b_2 z_1 + z_1} + B_2 e^{2e^{-b_2} z_1} - B_2 e^{-b_2 z_1 + z_1} + e^{-b_2 z_1 + z_1} + B_2^2 (-e^{2z_1}) + B_2 e^{2z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{7n1}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{7n2}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{8a1}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 5B_2^3 z_1 + 8B_2^2 z_1 - 5B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{8a2}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 - B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{8a3}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-4B_1 e^{e^{2b_1} z_2 + 2z_2} + 2B_1 e^{2e^{2b_1} z_2 + z_2} + e^{3e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 2z_2} - 4e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + e^{2e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^3 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8a4}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{8a5}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2} + 2B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{3e^{2b_1} z_2} - 2e^{e^{2b_1} z_2 + 2z_2} + 2e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2 e^{2e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^3 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

TABLE OF VALUES

Table B.1 – continued from previous page

Column 1	Column 2
L_{8a6}	$\left(\left(\frac{B_1 \left(-e^{\frac{3}{2}e^{2b_1}z_2} \right) - e^{\frac{3}{2}e^{2b_1}z_2}}{2B_1 e^{e^{2b_1}z_2 + \frac{z_2}{2}} - 3e^{e^{2b_1}z_2 + \frac{z_2}{2}} - 3B_1 e^{\frac{3z_2}{2}} + 2e^{\frac{3z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2 \left(-e^{\frac{3}{2}e^{2b_2}z_1} \right) - e^{\frac{3}{2}e^{2b_2}z_1}}{2B_2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 3B_2 e^{\frac{3z_1}{2}} + 2e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8a7}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} + e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{-4B_1 e^{e^{2b_1}z_2 + 2z_2} + 4B_1 e^{2e^{2b_1}z_2 + z_2} + e^{3e^{2b_1}z_2 + 4e^{2b_1}z_2 + 2z_2} - 4e^{2e^{2b_1}z_2 + z_2} + B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2}e^{2b_2}z_1} + B_2 e^{\frac{3}{2}e^{2b_2}z_1}}{4B_2^2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 4B_2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} + e^{e^{2b_2}z_1 + \frac{z_1}{2}} + B_2^3 e^{\frac{3z_1}{2}} - 4B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8a8}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + z_2} - 2B_1 e^{2e^{b_1}z_2 + 3B_1 e^{e^{b_1}z_2 + z_2} + 2e^{e^{b_1}z_2} - 2e^{e^{b_1}z_2 + z_2} + B_1^2 e^{2z_2} - 2B_1 e^{2z_2 + e^{2z_2}}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2 e^{2e^{b_2}z_1} - 2B_2^2 e^{e^{b_2}z_1 + z_1} - 2B_2^2 e^{2e^{b_2}z_1 + z_1} + B_2^3 e^{\frac{3z_1}{2}} - 4B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8a9}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + z_2} - 2B_1 e^{2e^{b_1}z_2 + 5B_1 e^{e^{b_1}z_2 + z_2} + 2e^{e^{b_1}z_2} - 2e^{e^{b_1}z_2 + z_2} + B_1^2 e^{2z_2} - 2B_1 e^{2z_2 + e^{2z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{2e^{b_2}z_1} - 2B_2^2 e^{e^{b_2}z_1 + z_1} - 2B_2^2 e^{2e^{b_2}z_1 + z_1} + B_2^3 e^{\frac{3z_1}{2}} - 4B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8a10}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2} + B_1 e^{\frac{5}{2}e^{3b_1}z_2} + e^{\frac{5}{2}e^{3b_1}z_2}}{2B_1^2 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - 3B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + 2B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 2e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + B_1^2 \left(-e^{\frac{5z_2}{2}} \right) + 2B_1 e^{\frac{5z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} - 3B_2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} + 2B_2 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} + B_2^3 e^{\frac{3z_1}{2}} - 4B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8a11}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2} + B_1 e^{\frac{5}{2}e^{3b_1}z_2} + e^{\frac{5}{2}e^{3b_1}z_2}}{B_1^2 \left(-e^{e^{3b_1}z_2 + \frac{3z_2}{2}} \right) + 2B_1^2 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 3B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} - e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - B_1 e^{\frac{5z_2}{2}} + 2e^{\frac{5z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{e^{3b_2}z_1 + \frac{3z_1}{2}} \right) + 2B_2^2 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} + 3B_2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} - B_2 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} - e^{e^{3b_2}z_1 + \frac{3z_1}{2}} - B_2 e^{\frac{5z_1}{2}} + 2e^{\frac{5z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8a12}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2}e^{4b_1}z_2} + B_1^2 e^{\frac{7}{2}e^{4b_1}z_2} + B_1 e^{\frac{7}{2}e^{4b_1}z_2} + e^{\frac{7}{2}e^{4b_1}z_2}}{B_1^3 e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} + B_1^2 e^{e^{4b_1}z_2 + \frac{5z_2}{2}} - B_1^2 e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} + B_1^2 e^{3e^{4b_1}z_2 + \frac{z_2}{2}} - B_1 e^{e^{4b_1}z_2 + \frac{5z_2}{2}} + B_1 e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} + e^{e^{4b_1}z_2 + \frac{5z_2}{2}} + B_1 e^{\frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{2e^{4b_2}z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{4b_2}z_1 + \frac{5z_1}{2}} + B_2 e^{2e^{4b_2}z_1 + \frac{z_1}{2}} + e^{e^{4b_2}z_1 + \frac{3z_1}{2}} - B_2^3 e^{\frac{3z_1}{2}} + 4B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8a13}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2}e^{4b_1}z_2} + B_1^2 e^{\frac{7}{2}e^{4b_1}z_2} + B_1 e^{\frac{7}{2}e^{4b_1}z_2} + e^{\frac{7}{2}e^{4b_1}z_2}}{B_1^3 e^{e^{4b_1}z_2 + \frac{5z_2}{2}} - 2B_1^2 e^{e^{4b_1}z_2 + \frac{5z_2}{2}} + 2B_1^2 e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} + 2B_1 e^{e^{4b_1}z_2 + \frac{5z_2}{2}} - 2B_1 e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} + B_1 e^{3e^{4b_1}z_2 + \frac{z_2}{2}} + e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} + B_1^2 e^{\frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{4b_2}z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{4b_2}z_1 + \frac{5z_1}{2}} + B_2 e^{2e^{4b_2}z_1 + \frac{z_1}{2}} + e^{e^{4b_2}z_1 + \frac{3z_1}{2}} - B_2^3 e^{\frac{3z_1}{2}} + 4B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{8a14}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + e^{\frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{7}{2} e^{4b_2} z_1} + B_2^2 e^{\frac{7}{2} e^{4b_2} z_1} + B_2 e^{\frac{7}{2} e^{4b_2} z_1} + e^{\frac{7}{2} e^{4b_2} z_1}}{B_2^3 e^{3e^{4b_2} z_1 + \frac{z_1}{2}} + B_2^2 e^{2e^{4b_2} z_1 + \frac{3z_1}{2}} + B_2 e^{e^{4b_2} z_1 + \frac{5z_1}{2}} + e^{\frac{7z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8n1}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2 - 2B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 2z_2} + e^{3z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2 e^{\frac{3z_1}{2}} + e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{8n2}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 + B_2^2 - 3B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a1}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 + B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a2}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 4B_2^4 z_1 - 4B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a3}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 + B_2^3 - B_2^2 + B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a4}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 6B_2^3 z_1 + 8B_2^2 z_1 - 6B_2 z_1 - 2B_2^3 + 3B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a5}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2 + 5B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{3e^{2b_1} z_2 - 4e^{e^{2b_1} z_2 + 2z_2} + 5e^{2e^{2b_1} z_2 + z_2} - 3B_1 e^{3z_2} + e^{3z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 5B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 5B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9a6}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-2B_1 e^{e^{2b_1} z_2 + 4z_2 + 3B_1 e^{2e^{2b_1} z_2 + 3z_2} - 3B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2 + 2e^{e^{2b_1} z_2 + 4z_2} - 3e^{2e^{2b_1} z_2 + 3z_2} + 3e^{3e^{2b_1} z_2 + 2z_2} - 2e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}}} \right)_{(\{1\}, \{2\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{9a7}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-4B_1 e^{e^{2b_1} z_2 + 2z_2} + 3B_1 e^{2e^{2b_1} z_2 + z_2} + 2e^{3e^{2b_1} z_2 + 2z_2} - 4e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1 + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}}{3B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^3 e^{\frac{3}{2} e^{2b_2} z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{9a8}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 6B_2^3 z_1 + 10B_2^2 z_1 - 6B_2 z_1 - B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a9}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 5B_2^4 z_1 - 6B_2^3 z_1 + 5B_2^2 z_1 - 3B_2 z_1 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a10}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 6B_2^3 z_1 + 8B_2^2 z_1 - 6B_2 z_1 - B_2^3 + 3B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a11}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2 + 6B_1 e^{e^{2b_1} z_2 + 2z_2}} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{3e^{2b_1} z_2} - 4e^{2e^{2b_1} z_2 + 2z_2} + 6e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 6B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 6B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{9a12}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-2B_1 e^{e^{2b_1} z_2 + 4z_2} + 2B_1 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2 + 2e^{2b_1} z_2 + 4z_2} - 2e^{2e^{2b_1} z_2 + 3z_2} + 2e^{3e^{2b_1} z_2 + 2z_2} - 2e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{9a13}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-5B_1 e^{e^{2b_1} z_2 + 2z_2} + 4B_1 e^{2e^{2b_1} z_2 + z_2} + 2e^{3e^{2b_1} z_2 + 2z_2} + 4e^{e^{2b_1} z_2 + 2z_2} - 5e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1 + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}}{4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 5B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^3 e^{\frac{3}{2} e^{2b_2} z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{9a14}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 2B_2^5 z_1 + 2B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a15}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 5B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 - 2B_2^3 + 3B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a16}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2 + 4B_1 e^{e^{2b_1} z_2 + 2z_2}} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{3e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 2z_2} + 4e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 6B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 6B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{9a17}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 5B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 - B_2^3 + B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a18}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{3B_2^2 z_1 - 6B_2 z_1 - B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a19}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2 + 6B_1 e^{2b_1} z_2 + 2z_2} - 5B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{3e^{2b_1} z_2} - 5e^{e^{2b_1} z_2 + 2z_2} + 6e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{2b_2 z_1 + \frac{z_1}{2}} - 5B_2^2 e^{2b_2 z_1 + \frac{z_1}{2}} + 6B_2 e^{b_2 z_1 + \frac{z_1}{2}} - 2e^{2b_2 z_1 + \frac{z_1}{2}}}{2B_2^3 e^{2b_2 z_1 + \frac{z_1}{2}} - 5B_2^2 e^{2b_2 z_1 + \frac{z_1}{2}} + 6B_2 e^{b_2 z_1 + \frac{z_1}{2}} - 2e^{2b_2 z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9a20}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 4B_1 e^{e^{b_1} z_2 + 3z_2} - 7B_1 e^{2e^{b_1} z_2 + 2z_2} + 4B_1 e^{3e^{b_1} z_2 + z_2} - 3e^{e^{b_1} z_2 + 3z_2} + 3e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right)_{(\{2\}, \{1\})} \right)$
L_{9a21}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right)_{(\{2\}, \{1\})} \right)$
L_{9a22}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 3B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 3B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right)_{(\{2\}, \{1\})} \right)$
L_{9a23}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 2B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 3B_1 e^{e^{3b_1} z_2 + 3z_2} + 5B_1 e^{2e^{3b_1} z_2 + 2z_2} - 3B_1 e^{3e^{3b_1} z_2 + z_2} + e^{e^{3b_1} z_2 + 3z_2} - 2e^{2e^{3b_1} z_2 + 2z_2} + 2e^{3e^{3b_1} z_2 + z_2} - e^{e^{3b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 2B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 3B_1 e^{e^{3b_1} z_2 + 3z_2} + 5B_1 e^{2e^{3b_1} z_2 + 2z_2} - 3B_1 e^{3e^{3b_1} z_2 + z_2} + e^{e^{3b_1} z_2 + 3z_2} - 2e^{2e^{3b_1} z_2 + 2z_2} + 2e^{3e^{3b_1} z_2 + z_2} - e^{e^{3b_1} z_2 + z_2}} \right)_{(\{2\}, \{1\})} \right)$
L_{9a24}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{e^{b_1} z_2 + 3z_2} - B_1^2 e^{2e^{b_1} z_2 + 2z_2} + B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{4e^{b_1} z_2} - 3B_1 e^{e^{b_1} z_2 + 3z_2} + 3B_1 e^{2e^{b_1} z_2 + 2z_2} - 3B_1 e^{3e^{b_1} z_2 + z_2} - e^{4e^{b_1} z_2} + e^{e^{b_1} z_2 + 3z_2} - e^{2e^{b_1} z_2 + 2z_2} + e^{3e^{b_1} z_2 + z_2} - e^{e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{e^{b_1} z_2 + 3z_2} - B_1^2 e^{2e^{b_1} z_2 + 2z_2} + B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{4e^{b_1} z_2} - 3B_1 e^{e^{b_1} z_2 + 3z_2} + 3B_1 e^{2e^{b_1} z_2 + 2z_2} - 3B_1 e^{3e^{b_1} z_2 + z_2} - e^{4e^{b_1} z_2} + e^{e^{b_1} z_2 + 3z_2} - e^{2e^{b_1} z_2 + 2z_2} + e^{3e^{b_1} z_2 + z_2} - e^{e^{b_1} z_2 + z_2}} \right)_{(\{2\}, \{1\})} \right)$
L_{9a25}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{b_1} z_2 + z_2} + 2B_1 e^{2e^{b_1} z_2} - 5B_1 e^{e^{b_1} z_2 + z_2} - 2e^{2e^{b_1} z_2} + 2e^{e^{b_1} z_2 + z_2} - 2B_1^2 e^{2z_2} + 2B_1 e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{2B_2^2 e^{e^{b_2} z_1 + z_1} + 2B_2 e^{2e^{b_2} z_1} - 5B_2 e^{e^{b_2} z_1 + z_1} - 2e^{2e^{b_2} z_1} + 2e^{e^{b_2} z_1 + z_1} - 2B_2^2 e^{2z_1} + 2B_2 e^{2z_1}} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{9a26}	$\left(\left(-\frac{B_1 e^{\frac{1}{2}e^{-b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{2e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + z_2} - 3B_1 e^{2e^{-b_1}z_2 + 5B_1 e^{e^{-b_1}z_2 + z_2} + e^{2e^{-b_1}z_2} - 3e^{e^{-b_1}z_2 + z_2} + B_1^2 e^{2z_2} - 3B_1 e^{2z_2} + 2e^{2z_2}}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_1 e^{\frac{1}{2}e^{-b_1}z_2 + \frac{3z_2}{2}}}{2B_2^2 e^{2e^{-b_2}z_1} - 3B_2^2 e^{e^{-b_2}z_1 + z_2} - 3B_2 e^{2e^{-b_2}z_1 + 5B_2 e^{e^{-b_2}z_1 + z_2} + e^{2e^{-b_2}z_1} - 3e^{e^{-b_2}z_1 + z_2} + B_2^2 e^{2z_2} - 3B_2 e^{2z_2} + 2e^{2z_2}}} \right)_{(\{1\}, \{2\})} \right),$
L_{9a27}	$\left(\left(\frac{B_1 e^{\frac{1}{2}e^{-b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{2e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + z_2} - 3B_1 e^{2e^{-b_1}z_2 + 7B_1 e^{e^{-b_1}z_2 + z_2} + 2e^{2e^{-b_1}z_2} - 3e^{e^{-b_1}z_2 + z_2} + 2B_1^2 e^{2z_2} - 3B_1 e^{2z_2} + e^{2z_2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1 e^{\frac{1}{2}e^{-b_1}z_2 + \frac{3z_2}{2}}}{B_2^2 e^{2e^{-b_2}z_1} - 3B_2^2 e^{e^{-b_2}z_1 + z_2} - 3B_2 e^{2e^{-b_2}z_1 + 5B_2 e^{e^{-b_2}z_1 + z_2} + e^{2e^{-b_2}z_1} - 3e^{e^{-b_2}z_1 + z_2} + B_2^2 e^{2z_2} - 3B_2 e^{2z_2} + 2e^{2z_2}}} \right)_{(\{1\}, \{2\})} \right),$
L_{9a28}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1}z_2} + 2B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 2B_1^2 e^{3e^{3b_1}z_2 + z_2} + 2B_1 e^{e^{3b_1}z_2 + 3z_2} - 3B_1 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1 e^{3e^{3b_1}z_2 + z_2} - 2e^{e^{3b_1}z_2 + 3z_2} + 2e^{2e^{3b_1}z_2 + z_2} + e^{4z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_2^2 e^{4e^{3b_2}z_1} + 2B_2^2 e^{2e^{3b_2}z_1 + 2z_2} - 2B_2^2 e^{3e^{3b_2}z_1 + z_2} + 2B_2 e^{e^{3b_2}z_1 + 3z_2} - 3B_2 e^{2e^{3b_2}z_1 + 2z_2} + 2B_2 e^{3e^{3b_2}z_1 + z_2} - 2e^{e^{3b_2}z_1 + 3z_2} + 2e^{2e^{3b_2}z_1 + z_2} + e^{4z_2}} \right)_{(\{1\}, \{2\})} \right),$
L_{9a29}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1}z_2} - B_1^2 e^{e^{b_1}z_2 + 3z_2} + B_1^2 e^{2e^{b_1}z_2 + 2z_2} - B_1^2 e^{3e^{b_1}z_2 + z_2} - B_1 e^{4e^{b_1}z_2} + B_1 e^{e^{b_1}z_2 + 3z_2} - B_1 e^{2e^{b_1}z_2 + 2z_2} + B_1 e^{3e^{b_1}z_2 + z_2} - e^{e^{b_1}z_2 + 3z_2} + e^{2e^{b_1}z_2 + 2z_2} - e^{e^{b_1}z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_2^2 e^{4e^{b_2}z_1} - B_2^2 e^{e^{b_2}z_1 + 3z_2} + B_2^2 e^{2e^{b_2}z_1 + 2z_2} - B_2^2 e^{3e^{b_2}z_1 + z_2} - B_2 e^{4e^{b_2}z_1} + B_2 e^{e^{b_2}z_1 + 3z_2} - B_2 e^{2e^{b_2}z_1 + 2z_2} + B_2 e^{3e^{b_2}z_1 + z_2} - e^{e^{b_2}z_1 + 3z_2} + e^{2e^{b_2}z_1 + 2z_2} - e^{e^{b_2}z_1 + z_2}} \right)_{(\{1\}, \{2\})} \right),$
L_{9a30}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + z_2} - 2B_1 e^{2e^{b_1}z_2 + 3B_1 e^{e^{b_1}z_2 + z_2} - 2e^{e^{b_1}z_2 + z_2} - 2B_1 e^{2z_2} + 2e^{2z_2}}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2 e^{\frac{3}{2}e^{b_2}z_1 + \frac{z_1}{2}}}{2B_2^2 e^{2e^{b_2}z_1} - 2B_2^2 e^{e^{b_2}z_1 + z_2} - 2B_2 e^{2e^{b_2}z_1 + 3B_2 e^{e^{b_2}z_1 + z_2} - 2e^{e^{b_2}z_1 + z_2} - 2B_2 e^{2z_2} + 2e^{2z_2}}} \right)_{(\{1\}, \{2\})} \right),$
L_{9a31}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 \left(-e^{4e^{-b_1}z_2} \right) + B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 2B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{-b_1}z_2 + z_2} + B_1 e^{4e^{-b_1}z_2} - 4B_1 e^{e^{-b_1}z_2 + 3z_2} + 5B_1 e^{2e^{-b_1}z_2 + 2z_2} - 4B_1 e^{3e^{-b_1}z_2 + z_2} + 2e^{e^{-b_1}z_2 + 3z_2} - 2e^{2e^{-b_1}z_2 + 2z_2} + e^{e^{-b_1}z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_2^2 \left(-e^{4e^{-b_2}z_1} \right) + B_2^2 e^{e^{-b_2}z_1 + 3z_2} - 2B_2^2 e^{2e^{-b_2}z_1 + 2z_2} + 2B_2^2 e^{3e^{-b_2}z_1 + z_2} + B_2 e^{4e^{-b_2}z_1} - 4B_2 e^{e^{-b_2}z_1 + 3z_2} + 5B_2 e^{2e^{-b_2}z_1 + 2z_2} - 4B_2 e^{3e^{-b_2}z_1 + z_2} + 2e^{e^{-b_2}z_1 + 3z_2} - 2e^{2e^{-b_2}z_1 + 2z_2} + e^{e^{-b_2}z_1 + z_2}} \right)_{(\{1\}, \{2\})} \right),$
L_{9a32}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{-3B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 3B_1 e^{e^{3b_1}z_2 + 3z_2} - 5B_1 e^{2e^{3b_1}z_2 + 2z_2} + 3B_1 e^{3e^{3b_1}z_2 + z_2} + e^{4e^{3b_1}z_2} + 3e^{2e^{3b_1}z_2 + 2z_2} - 3e^{3e^{3b_1}z_2 + z_2} + B_1^2 e^{4z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{-3B_2^2 e^{e^{3b_2}z_1 + 3z_2} + 3B_2^2 e^{2e^{3b_2}z_1 + 2z_2} + 3B_2 e^{e^{3b_2}z_1 + 3z_2} - 5B_2 e^{2e^{3b_2}z_1 + 2z_2} + 3B_2 e^{3e^{3b_2}z_1 + z_2} + e^{4e^{3b_2}z_1} + 3e^{2e^{3b_2}z_1 + 2z_2} - 3e^{3e^{3b_2}z_1 + z_2} + B_2^2 e^{4z_2}} \right)_{(\{1\}, \{2\})} \right),$
L_{9a33}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2 + B_1 e^{\frac{5}{2}e^{3b_1}z_2 + e^{\frac{5}{2}e^{3b_1}z_2}}}{-3B_1^2 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + B_1^2 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 7B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - 3B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} - 3e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + 3e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 3B_1^2 e^{\frac{5z_2}{2}} - 3B_1 e^{\frac{5z_2}{2}} + e^{\frac{5z_2}{2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2 + B_1 e^{\frac{5}{2}e^{3b_1}z_2 + e^{\frac{5}{2}e^{3b_1}z_2}}}{-3B_2^2 e^{e^{3b_2}z_1 + \frac{3z_2}{2}} + B_2^2 e^{2e^{3b_2}z_1 + \frac{z_2}{2}} + 7B_2 e^{e^{3b_2}z_1 + \frac{3z_2}{2}} - 3B_2 e^{2e^{3b_2}z_1 + \frac{z_2}{2}} - 3e^{e^{3b_2}z_1 + \frac{3z_2}{2}} + 3e^{2e^{3b_2}z_1 + \frac{z_2}{2}} + 3B_2^2 e^{\frac{5z_2}{2}} - 3B_2 e^{\frac{5z_2}{2}} + e^{\frac{5z_2}{2}}} \right)_{(\{1\}, \{2\})} \right),$
L_{9a34}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{B_1^3 \left(-e^{2e^{2b_1}z_2 + 2z_2} \right) + B_1^3 e^{2e^{2b_1}z_2 + z_2} + B_1^2 e^{3e^{2b_1}z_2} + 2B_1^2 e^{e^{2b_1}z_2 + 2z_2} - 3B_1^2 e^{2e^{2b_1}z_2 + z_2} - B_1 e^{3e^{2b_1}z_2} - 3B_1 e^{e^{2b_1}z_2 + 2z_2} + 2B_1 e^{2e^{2b_1}z_2 + z_2} + e^{e^{2b_1}z_2 + 2z_2} - e^{e^{2b_1}z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{B_2^3 \left(-e^{2e^{2b_2}z_2 + 2z_2} \right) + B_2^3 e^{2e^{2b_2}z_2 + z_2} + B_2^2 e^{3e^{2b_2}z_2} + 2B_2^2 e^{e^{2b_2}z_2 + 2z_2} - 3B_2^2 e^{2e^{2b_2}z_2 + z_2} - B_2 e^{3e^{2b_2}z_2} - 3B_2 e^{e^{2b_2}z_2 + 2z_2} + 2B_2 e^{2e^{2b_2}z_2 + z_2} + e^{e^{2b_2}z_2 + 2z_2} - e^{e^{2b_2}z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right),$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{9a35}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - B_1^3 z_2 - B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - B_2^3 z_1 - B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a36}	$\left(\left(\frac{B_1^2 e^{\frac{1}{2} e^{-2b_1 z_2 + \frac{5z_2}{2}}} + B_1 e^{\frac{1}{2} e^{-2b_1 z_2 + \frac{5z_2}{2}}}}{B_1^3 (-e^{3e^{-2b_1 z_2}}) + B_1^3 e^{2e^{-2b_1 z_2 + z_2}} + B_1^2 e^{3e^{-2b_1 z_2 + z_2}} + B_1^2 e^{e^{-2b_1 z_2 + 2z_2}} - B_1^2 e^{2e^{-2b_1 z_2 + z_2}} - B_1 e^{e^{-2b_1 z_2 + 2z_2}} + B_1 e^{2e^{-2b_1 z_2 + z_2}} + e^{e^{-2b_1 z_2 + 2z_2}} + B_1 e^{3z_2 - e^{3z_2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{9a37}	$\left(\left(\frac{B_1^2 e^{\frac{1}{2} e^{-2b_1 z_2 + \frac{5z_2}{2}}} + B_1 e^{\frac{1}{2} e^{-2b_1 z_2 + \frac{5z_2}{2}}}}{B_1^3 e^{e^{-2b_1 z_2 + 2z_2}} - B_1^3 e^{2e^{-2b_1 z_2 + z_2}} - B_1^2 e^{3e^{-2b_1 z_2 - 3B_1^2 e^{-2b_1 z_2 + 2z_2} + 4B_1^2 e^{-2b_1 z_2 + z_2}} + B_1^2 e^{3e^{-2b_1 z_2 + z_2}} + B_1^2 e^{e^{-2b_1 z_2 + 2z_2}} - 3B_1^2 e^{2e^{-2b_1 z_2 + z_2}} - e^{e^{-2b_1 z_2 + 2z_2}} + B_1 e^{3e^{-2b_1 z_2 + 4B_1 e^{e^{-2b_1 z_2 + 2z_2}} - 3B_1 e^{2e^{-2b_1 z_2 + z_2}} - e^{e^{-2b_1 z_2 + 2z_2}} + B_1 e^{3z_2 - e^{3z_2}}}} \right)_{(\{1\}, \{2\})} \right)$
L_{9a38}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - 2B_1^2 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 2B_2^2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a39}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}} + B_1 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}}}{B_1^3 e^{3e^{2b_1 z_2}} - B_1^3 e^{2e^{2b_1 z_2 + z_2}} - B_1^2 e^{3e^{2b_1 z_2}} - B_1^2 e^{e^{2b_1 z_2 + 2z_2}} + 3B_1^2 e^{2e^{2b_1 z_2 + z_2}} + 3B_1^2 e^{e^{2b_1 z_2 + 2z_2}} - B_1 e^{2e^{2b_1 z_2 + z_2}} - e^{e^{2b_1 z_2 + 2z_2}} - B_1 e^{3z_2 + e^{3z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}} + B_1 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}}}{B_1^3 e^{3e^{2b_1 z_2}} - B_1^3 e^{2e^{2b_1 z_2 + z_2}} - B_1^2 e^{3e^{2b_1 z_2}} - B_1^2 e^{e^{2b_1 z_2 + 2z_2}} + 4B_1^2 e^{2e^{2b_1 z_2 + z_2}} + 4B_1^2 e^{e^{2b_1 z_2 + 2z_2}} - 2B_1 e^{2e^{2b_1 z_2 + z_2}} - e^{e^{2b_1 z_2 + 2z_2}} - B_1 e^{3z_2 + e^{3z_2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{9a40}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 + B_1^3 z_2 - 4B_1^2 z_2 + B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 + B_2^3 z_1 - 4B_2^2 z_1 + B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9a41}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}} + B_1 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}}}{B_1^3 e^{3e^{2b_1 z_2}} - B_1^3 e^{2e^{2b_1 z_2 + z_2}} - B_1^2 e^{3e^{2b_1 z_2}} - 2B_1^2 e^{e^{2b_1 z_2 + 2z_2}} + 4B_1^2 e^{2e^{2b_1 z_2 + z_2}} + 4B_1^2 e^{e^{2b_1 z_2 + 2z_2}} - 2B_1 e^{2e^{2b_1 z_2 + z_2}} - e^{e^{2b_1 z_2 + 2z_2}} - B_1 e^{3z_2 + e^{3z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}} + B_1 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}}}{B_1^3 e^{3e^{2b_1 z_2}} - B_1^3 e^{2e^{2b_1 z_2 + z_2}} - B_1^2 e^{3e^{2b_1 z_2}} - e^{e^{2b_1 z_2 + 2z_2}} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{9a42}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - B_2^3 z_1 - B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9n1}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}} + e^{\frac{5}{2} e^{2b_1 z_2 + \frac{z_2}{2}}}}{2B_1 e^{3e^{2b_1 z_2}} - B_1 e^{2e^{2b_1 z_2 + z_2}} - e^{e^{2b_1 z_2 + 2z_2}} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2 z_1}} + B_2 e^{\frac{3}{2} e^{2b_2 z_1}}}{2B_2^3 e^{e^{2b_2 z_1 + \frac{z_1}{2}}} - B_2^2 e^{e^{2b_2 z_1 + \frac{z_1}{2}}} - B_2 e^{\frac{3z_1}{2} + 2e^{\frac{3z_1}{2}}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9n2}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{2B_2^2 z_1 - 4B_2 z_1 + 2B_2^2 - 3B_2 + 2z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{9n3}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 + 2B_2^2 - 3B_2 + z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{9n4}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{3}{2} e^{2b_2} z_1} + B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9n5}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{9n6}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{9n7}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 2z_2} + e^{2e^{2b_1} z_2 + z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9n8}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + 2B_2^3 - 3B_2^2 + 2B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{9n9}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2} - B_1 e^{e^{2b_1} z_2 + 2z_2} + e^{3e^{2b_1} z_2} - e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^3 e^{\frac{3z_1}{2}} - B_2^2 e^{\frac{3z_1}{2}} + e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9n10}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2} + 3B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} - 2e^{e^{2b_1} z_2 + 2z_2} + 3e^{2e^{2b_1} z_2 + z_2} + B_1 (-e^{3z_2}) + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 3B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^2 e^{\frac{3z_1}{2}} + e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9n11}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2} + B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} - 2e^{e^{2b_1} z_2 + 2z_2} + e^{2e^{2b_1} z_2 + z_2} + B_1 (-e^{3z_2}) + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^2 e^{\frac{3z_1}{2}} - B_2 e^{\frac{3z_1}{2}} + e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{9n12}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-B_1 e^{2e^{2b_1} z_2 + 3z_2} + B_1 e^{3e^{2b_1} z_2 + 2z_2} + e^{5e^{2b_1} z_2 + 3z_2} - e^{3e^{2b_1} z_2 + 2z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{3}{2} e^{2b_2} z_1} + B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^5 e^{\frac{3z_1}{2}} - B_2^4 e^{\frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{9n13}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + z_2} - B_1 e^{2e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + z_2} - e^{e^{b_1} z_2 + z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} - B_2 e^{2e^{b_2} z_1} + 3B_2 e^{e^{b_2} z_1 + z_1} - e^{e^{b_2} z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{9n14}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - B_1 e^{2e^{b_1} z_2} + B_1 e^{e^{b_1} z_2 + z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} + B_2 e^{e^{b_2} z_1 + z_1} - e^{e^{b_2} z_1 + z_1} + e^{2z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{9n15}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1} z_2} + B_1 e^{2e^{3b_1} z_2 + 2z_2} + e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{\frac{5}{2} e^{3b_2} z_1} + B_2 e^{\frac{5}{2} e^{3b_2} z_1}}{B_2^4 e^{2e^{3b_2} z_1 + \frac{z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{z_1}{2}} + e^{\frac{5z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9n16}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{e^{3b_1} z_2 + 3z_2} + B_1 e^{4e^{3b_1} z_2} - B_1 e^{e^{3b_1} z_2 + 3z_2} + B_1 e^{2e^{3b_1} z_2 + 2z_2} - B_1 e^{3e^{3b_1} z_2 + z_2} + e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1}}{B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{9n17}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - 2B_1^2 e^{e^{b_1} z_2 + z_2} - B_1 e^{2e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} - 2B_2 e^{e^{b_2} z_1} + 3B_2 e^{e^{b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{9n18}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + B_1 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{7}{2} e^{4b_2} z_1} + B_2^2 e^{\frac{7}{2} e^{4b_2} z_1} + B_2 e^{\frac{7}{2} e^{4b_2} z_1} + e^{\frac{7}{2} e^{4b_2} z_1}}{B_2^3 e^{3e^{4b_2} z_1 + \frac{z_1}{2}} + B_2^2 e^{e^{4b_2} z_1 + \frac{5z_1}{2}} + B_2 e^{2e^{4b_2} z_1 + \frac{3z_1}{2}} + e^{\frac{7z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{9n19}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{7}{2} e^{4b_2} z_1} + B_2^2 e^{\frac{7}{2} e^{4b_2} z_1} + B_2 e^{\frac{7}{2} e^{4b_2} z_1} + e^{\frac{7}{2} e^{4b_2} z_1}}{B_2^3 e^{2e^{4b_2} z_1 + \frac{3z_1}{2}} + B_2 e^{3e^{4b_2} z_1 + \frac{z_1}{2}} + e^{e^{4b_2} z_1 + \frac{5z_1}{2}} + B_2^2 e^{\frac{7z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{10a1}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 12B_2^4 z_1 - 16B_2^3 z_1 + 12B_2^2 z_1 - 5B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{10a2}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 10B_2^4 z_1 - 12B_2^3 z_1 + 10B_2^2 z_1 - 5B_2 z_1 - B_2^4 + B_2^3 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a3}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 9B_2^3 z_1 + 14B_2^2 z_1 - 9B_2 z_1 - B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a4}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 10B_2^4 z_1 - 12B_2^3 z_1 + 10B_2^2 z_1 - 5B_2 z_1 + B_2^4 - 3B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a5}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 10B_2^4 z_1 - 12B_2^3 z_1 + 10B_2^2 z_1 - 5B_2 z_1 - B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a6}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 12B_2^4 z_1 - 16B_2^3 z_1 + 12B_2^2 z_1 - 5B_2 z_1 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a7}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 9B_2^3 z_1 + 14B_2^2 z_1 - 9B_2 z_1 + B_2^3 - 3B_2^2 + B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a8}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 4B_2^5 z_1 + 9B_2^4 z_1 - 12B_2^3 z_1 + 9B_2^2 z_1 - 4B_2 z_1 - B_2^5 + 3B_2^4 - 5B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a9}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 4B_2^5 z_1 + 7B_2^4 z_1 - 8B_2^3 z_1 + 7B_2^2 z_1 - 4B_2 z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a10}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 8B_2^3 z_1 + 12B_2^2 z_1 - 8B_2 z_1 - 2B_2^3 + 5B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a11}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-4B_1 e^{e^{2b_1} z_2 + 4z_2} + 7B_1 e^{2e^{2b_1} z_2 + 3z_2} - 7B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 7e^{2e^{2b_1} z_2 + 3z_2} + 7e^{3e^{2b_1} z_2 + 2z_2} - 4e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{10a12}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{B_1 e^{3e^{2b_1} z_2 + 9B_1 e^{2b_1} z_2 + 2z_2} - 6B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{3e^{2b_1} z_2} - 6e^{2b_1 z_2 + 2z_2} + 9e^{2e^{2b_1} z_2 + z_2} - 3B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 9B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 9B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a13}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{-4B_1 e^{e^{2b_1} z_2 + 4z_2} + 7B_1 e^{2e^{2b_1} z_2 + 3z_2} - 5B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{2b_1 z_2 + 4z_2} - 5e^{2e^{2b_1} z_2 + 3z_2} + 7e^{3e^{2b_1} z_2 + 2z_2} - 4e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 9B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 9B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a14}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 11B_2^4 z_1 - 14B_2^3 z_1 + 11B_2^2 z_1 - 5B_2 z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a15}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{-4B_1 e^{e^{2b_1} z_2 + 4z_2} + 5B_1 e^{2e^{2b_1} z_2 + 3z_2} - 5B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{2b_1 z_2 + 4z_2} - 5e^{2e^{2b_1} z_2 + 3z_2} + 5e^{3e^{2b_1} z_2 + 2z_2} - 4e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 9B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 9B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a16}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 2z_2} + 3B_1 e^{2e^{2b_1} z_2 + z_2} + 2e^{3e^{2b_1} z_2} + 3e^{2b_1 z_2 + 2z_2} - 6e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{3B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 6B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 2e^{2b_2 z_1 + \frac{z_1^2}{2}} + 2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a17}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{3B_2^4 z_1 - 10B_2^3 z_1 + 14B_2^2 z_1 - 10B_2 z_1 - 2B_2^3 + 3B_2^2 - 2B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a18}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 4B_2^5 z_1 + 7B_2^4 z_1 - 8B_2^3 z_1 + 7B_2^2 z_1 - 4B_2 z_1 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a19}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 8B_2^3 z_1 + 12B_2^2 z_1 - 8B_2 z_1 - 2B_2^3 + 3B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a20}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 11B_2^4 z_1 - 14B_2^3 z_1 + 11B_2^2 z_1 - 5B_2 z_1 - B_2^5 + 3B_2^4 - 5B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a21}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 11B_2^4 z_1 - 14B_2^3 z_1 + 11B_2^2 z_1 - 5B_2 z_1 - B_2^5 + 3B_2^4 - 5B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

TABLE OF VALUES

75

Table B.1 – continued from previous page

Column 1	Column 2
L_{10a32}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 9B_2^3 z_1 + 14B_2^2 z_1 - 9B_2 z_1 - 2B_2^3 + 5B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a33}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-4B_1 e^{e^{2b_1} z_2 + 4z_2} + 4B_1 e^{2e^{2b_1} z_2 + 3z_2} - 4B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2 + 2e^{2b_1} z_2 + 4z_2} - 4e^{2e^{2b_1} z_2 + 3z_2} + 4e^{3e^{2b_1} z_2 + 2z_2} - 4e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a34}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 9B_2^3 z_1 + 14B_2^2 z_1 - 9B_2 z_1 - B_2^3 + 3B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a35}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 4B_2^5 z_1 + 6B_2^4 z_1 - 6B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a36}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 9B_2^3 z_1 + 14B_2^2 z_1 - 9B_2 z_1 - 2B_2^3 + 3B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a37}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2 + 8B_1 e^{e^{2b_1} z_2 + 2z_2} - 6B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{3e^{2b_1} z_2} - 6e^{e^{2b_1} z_2 + 2z_2} + 8e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 8B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 8B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{10a38}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-4B_1 e^{e^{2b_1} z_2 + 4z_2} + 7B_1 e^{2e^{2b_1} z_2 + 3z_2} - 6B_1 e^{3e^{2b_1} z_2 + 2z_2} + 3B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2 + 3e^{2b_1} z_2 + 4z_2} - 6e^{2e^{2b_1} z_2 + 3z_2} + 7e^{3e^{2b_1} z_2 + 2z_2} - 4e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a39}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 4B_2^5 z_1 + 8B_2^4 z_1 - 10B_2^3 z_1 + 8B_2^2 z_1 - 4B_2 z_1 - B_2^5 + 2B_2^4 - 3B_2^3 + 2B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a40}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-7B_1 e^{e^{2b_1} z_2 + 2z_2} + 4B_1 e^{2e^{2b_1} z_2 + z_2} + 2e^{3e^{2b_1} z_2} + 4e^{e^{2b_1} z_2 + 2z_2} - 7e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right)}{4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 7B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{10a41}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 - B_2^3 + B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{10a42}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1e^{3e^{2b_1}z_2 + 8B_1e^{2b_1}z_2 + 2z_2} - 9B_1e^{2e^{2b_1}z_2 + z_2} - 2e^{3e^{2b_1}z_2} - 9e^{e^{2b_1}z_2 + 2z_2} + 8e^{2e^{2b_1}z_2 + z_2} - 2B_1e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{2B_2^3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 9B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}} + \dots}{2B_2^3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 9B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}} + \dots} \right)_{(\{1\}, \{2\})}$
L_{10a43}	$\left(\left(\frac{B_1e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1e^{5e^{2b_1}z_2 + 4B_1e^{e^{2b_1}z_2 + 4z_2}} - 8B_1e^{2e^{2b_1}z_2 + 3z_2} + 8B_1e^{3e^{2b_1}z_2 + 2z_2} - 4B_1e^{4e^{2b_1}z_2 + z_2} - 4e^{e^{2b_1}z_2 + 4z_2} + 8e^{2e^{2b_1}z_2 + 3z_2} - 8e^{3e^{2b_1}z_2 + 2z_2} + 4e^{4e^{2b_1}z_2 + z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a44}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1e^{5e^{2b_1}z_2 + 2B_1e^{e^{2b_1}z_2 + 4z_2}} - 2B_1e^{2e^{2b_1}z_2 + 3z_2} + 2B_1e^{3e^{2b_1}z_2 + 2z_2} - 2B_1e^{4e^{2b_1}z_2 + z_2} - 2e^{5e^{2b_1}z_2} - 2e^{e^{2b_1}z_2 + 4z_2} + 2e^{2e^{2b_1}z_2 + 3z_2} - 2e^{3e^{2b_1}z_2 + 2z_2} + 2e^{4e^{2b_1}z_2 + z_2} - 2e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a45}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1e^{3e^{2b_1}z_2 + 6B_1e^{e^{2b_1}z_2 + 2z_2}} - 5B_1e^{2e^{2b_1}z_2 + z_2} - 4e^{3e^{2b_1}z_2} - 5e^{e^{2b_1}z_2 + 2z_2} + 6e^{2e^{2b_1}z_2 + z_2} - 4B_1e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{2B_2^3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 5B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}} + \dots}{2B_2^3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 5B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}} + \dots} \right)_{(\{1\}, \{2\})}$
L_{10a46}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1e^{5e^{2b_1}z_2 + 3B_1e^{e^{2b_1}z_2 + 4z_2}} - 4B_1e^{2e^{2b_1}z_2 + 3z_2} + 3B_1e^{3e^{2b_1}z_2 + 2z_2} - 2B_1e^{4e^{2b_1}z_2 + z_2} - 2e^{5e^{2b_1}z_2} - 2e^{e^{2b_1}z_2 + 4z_2} + 3e^{2e^{2b_1}z_2 + 3z_2} - 4e^{3e^{2b_1}z_2 + 2z_2} + 3e^{4e^{2b_1}z_2 + z_2} - 2e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a47}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1e^{3e^{2b_1}z_2 + 4B_1e^{e^{2b_1}z_2 + 2z_2}} - 4B_1e^{2e^{2b_1}z_2 + z_2} - 3e^{3e^{2b_1}z_2} - 4e^{e^{2b_1}z_2 + 2z_2} + 4e^{2e^{2b_1}z_2 + z_2} - 3B_1e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{2B_2^3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 4B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}} + \dots}{2B_2^3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 4B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}} + \dots} \right)_{(\{1\}, \{2\})}$
L_{10a48}	$\left(\left(\frac{B_1 \left(-e^{\frac{3}{2}e^{2b_1}z_2} \right) - e^{\frac{3}{2}e^{2b_1}z_2}}{3B_1e^{e^{2b_1}z_2 + \frac{z_2}{2}} - 4e^{e^{2b_1}z_2 + \frac{z_2}{2}} - 4B_1e^{\frac{3z_2}{2}} + 3e^{\frac{3z_2}{2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2 \left(-e^{\frac{3}{2}e^{2b_2}z_1} \right) - e^{\frac{3}{2}e^{2b_2}z_1}}{3B_2e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 4e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 4B_2e^{\frac{3z_1}{2}} + 3e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{10a49}	$\left(\left(\frac{B_1e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-4B_1e^{e^{2b_1}z_2 + 4z_2} + 6B_1e^{2e^{2b_1}z_2 + 3z_2} - 6B_1e^{3e^{2b_1}z_2 + 2z_2} + 4B_1e^{4e^{2b_1}z_2 + z_2} + e^{5e^{2b_1}z_2} + 4e^{e^{2b_1}z_2 + 4z_2} - 6e^{2e^{2b_1}z_2 + 3z_2} + 6e^{3e^{2b_1}z_2 + 2z_2} - 4e^{4e^{2b_1}z_2 + z_2} + B_1e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
Continued on next page	

TABLE OF VALUES

Table B.1 – continued from previous page

Column 1	Column 2
L_{10a50}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-7B_1 e^{e^{2b_1} z_2 + 2z_2} + 6B_1 e^{2e^{2b_1} z_2 + z_2} + 2e^{3e^{2b_1} z_2 + 6e^{e^{2b_1} z_2 + 2z_2} - 7e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3z_2}} \right)} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 7B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^3 e^{\frac{3}{2} e^{2b_2} z_1}} \right)$
L_{10a51}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 6B_1 e^{e^{b_1} z_2 + 3z_2} - 9B_1 e^{2e^{b_1} z_2 + 2z_2} + 6B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 3e^{e^{b_1} z_2 + 3z_2} + 4e^{2e^{b_1} z_2 + 2z_2}} \right)} \right)$
L_{10a52}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 6B_1 e^{e^{b_1} z_2 + 3z_2} - 7B_1 e^{2e^{b_1} z_2 + 2z_2} + 6B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 3e^{e^{b_1} z_2 + 3z_2} + 4e^{2e^{b_1} z_2 + 2z_2}} \right)} \right)$
L_{10a53}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 2B_1^2 e^{e^{b_1} z_2 + 3z_2} + 5B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 6B_1 e^{e^{b_1} z_2 + 3z_2} - 11B_1 e^{2e^{b_1} z_2 + 2z_2} + 6B_1 e^{3e^{b_1} z_2 + z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 5e^{2e^{b_1} z_2 + 2z_2}} \right)} \right)$
L_{10a54}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + 3z_2} - 7B_1 e^{2e^{b_1} z_2 + 2z_2} + 5B_1 e^{3e^{b_1} z_2 + z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 4e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + 3z_2}} \right)} \right)$
L_{10a55}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + 3z_2} - 9B_1 e^{2e^{b_1} z_2 + 2z_2} + 5B_1 e^{3e^{b_1} z_2 + z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 4e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + 3z_2}} \right)} \right)$
L_{10a56}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + 3z_2} + 6B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 8B_1 e^{e^{b_1} z_2 + 3z_2} - 13B_1 e^{2e^{b_1} z_2 + 2z_2} + 8B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 6e^{2e^{b_1} z_2 + 2z_2}} \right)} \right)$
L_{10a57}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{3B_1^2 e^{e^{b_1} z_2 + 3z_2} - 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} + B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{4e^{b_1} z_2} - 5B_1 e^{e^{b_1} z_2 + 3z_2} + 9B_1 e^{2e^{b_1} z_2 + 2z_2} - 5B_1 e^{3e^{b_1} z_2 + z_2} - e^{4e^{b_1} z_2} + e^{e^{b_1} z_2 + 3z_2} - 3e^{2e^{b_1} z_2 + 2z_2} + 3e^{e^{b_1} z_2 + 3z_2}} \right)} \right)$
L_{10a58}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} - e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 4B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 5B_1 e^{e^{3b_1} z_2 + 3z_2} + 7B_1 e^{2e^{3b_1} z_2 + 2z_2} - 5B_1 e^{3e^{3b_1} z_2 + z_2} + e^{4e^{3b_1} z_2} - 4e^{2e^{3b_1} z_2 + 2z_2} + 2e^{e^{3b_1} z_2 + 3z_2}} \right)} \right)$
Continued on next page	

TABLE OF VALUES

Table B.1 – continued from previous page

Column 1	Column 2
L_{10a59}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{3B_1^2 e^{e^{b_1} z_2 + 3z_2} - 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} + B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{4e^{b_1} z_2} - 5B_1 e^{e^{b_1} z_2 + 3z_2} + 7B_1 e^{2e^{b_1} z_2 + 2z_2} - 5B_1 e^{3e^{b_1} z_2 + z_2} - e^{4e^{b_1} z_2} + e^{e^{b_1} z_2 + 3z_2} - 3e^{2e^{b_1} z_2 + 2z_2} + 3e^{3e^{b_1} z_2 + z_2}} \right) \right)$
L_{10a60}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^2 (-e^{4e^{-b_1} z_2}) + 2B_1^2 e^{e^{-b_1} z_2 + 3z_2} - 4B_1^2 e^{2e^{-b_1} z_2 + 2z_2} + 3B_1^2 e^{3e^{-b_1} z_2 + z_2} + B_1 e^{4e^{-b_1} z_2} - 4B_1 e^{e^{-b_1} z_2 + 3z_2} + 7B_1 e^{2e^{-b_1} z_2 + 2z_2} - 4B_1 e^{3e^{-b_1} z_2 + z_2} + 3e^{e^{-b_1} z_2 + 3z_2} - 3e^{2e^{-b_1} z_2 + 2z_2} + 3e^{3e^{-b_1} z_2 + z_2}} \right) \right)$
L_{10a61}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{-3B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{-b_1} z_2 + z_2} - B_1 e^{4e^{-b_1} z_2} + 6B_1 e^{e^{-b_1} z_2 + 3z_2} - 9B_1 e^{2e^{-b_1} z_2 + 2z_2} + 6B_1 e^{3e^{-b_1} z_2 + z_2} + e^{4e^{-b_1} z_2} - 2e^{e^{-b_1} z_2 + 3z_2} + 4e^{2e^{-b_1} z_2 + 2z_2} - 2e^{3e^{-b_1} z_2 + z_2}} \right) \right)$
L_{10a62}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 2B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 3B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - 2e^{3e^{b_1} z_2 + z_2}} \right) \right)$
L_{10a63}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 2B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 5B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - 2e^{3e^{b_1} z_2 + z_2}} \right) \right)$
L_{10a64}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + z_2} - 4B_1 e^{2e^{b_1} z_2} + 7B_1 e^{e^{b_1} z_2 + z_2} + 2e^{2e^{b_1} z_2} - 4e^{e^{b_1} z_2 + z_2} + 2B_1^2 e^{2z_2} - 4B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_2^2 e^{2e^{b_2} z_1} - 4B_2^2 e^{e^{b_2} z_1 + z_1} - 4B_2 e^{2e^{b_2} z_1} + 7B_2 e^{e^{b_2} z_1 + z_1} + 2e^{2e^{b_2} z_1} - 4e^{e^{b_2} z_1 + z_1} + 2B_2^2 e^{2z_1} - 4B_2 e^{2z_1} + 2e^{2z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a65}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + z_2} - 4B_1 e^{2e^{b_1} z_2} + 9B_1 e^{e^{b_1} z_2 + z_2} + 2e^{2e^{b_1} z_2} - 4e^{e^{b_1} z_2 + z_2} + 2B_1^2 e^{2z_2} - 4B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_2^2 e^{2e^{b_2} z_1} - 4B_2^2 e^{e^{b_2} z_1 + z_1} - 4B_2 e^{2e^{b_2} z_1} + 7B_2 e^{e^{b_2} z_1 + z_1} + 2e^{2e^{b_2} z_1} - 4e^{e^{b_2} z_1 + z_1} + 2B_2^2 e^{2z_1} - 4B_2 e^{2z_1} + 2e^{2z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a66}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 3B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - 3e^{4e^{b_1} z_2} + 3e^{e^{b_1} z_2 + 3z_2} + 3e^{2e^{b_1} z_2 + 2z_2} - 3e^{3e^{b_1} z_2 + z_2}} \right) \right)$
L_{10a67}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} - e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1} z_2} + 2B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - 4B_1^2 e^{e^{3b_1} z_2 + z_2} + 2B_1 e^{3e^{3b_1} z_2 + 3z_2} - 5B_1 e^{2e^{3b_1} z_2 + 2z_2} + 2B_1 e^{3e^{3b_1} z_2 + z_2} - 4e^{e^{3b_1} z_2 + 3z_2} + 2e^{2e^{3b_1} z_2 + 2z_2} + e^{4e^{3b_1} z_2} - 2e^{e^{3b_1} z_2 + 3z_2} + 2e^{2e^{3b_1} z_2 + 2z_2} - 2e^{3e^{3b_1} z_2 + z_2}} \right) \right)$
Continued on next page	

TABLE OF VALUES

Table B.1 – continued from previous page

Column 1	Column 2
L_{10a68}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1}z_2} - B_1^2 e^{e^{b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1}z_2 + z_2} - B_1 e^{4e^{b_1}z_2} + 3B_1 e^{e^{b_1}z_2 + 3z_2} - 5B_1 e^{2e^{b_1}z_2 + 2z_2} + 3B_1 e^{3e^{b_1}z_2 + z_2} - 3e^{e^{b_1}z_2 + 3z_2} + 3e^{2e^{b_1}z_2 + 2z_2} - 3e^{3e^{b_1}z_2 + z_2}} \right) \right)$
L_{10a69}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 (-e^{4e^{-b_1}z_2}) + B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 4B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 4B_1^2 e^{3e^{-b_1}z_2 + z_2} + B_1 e^{4e^{-b_1}z_2} - 6B_1 e^{e^{-b_1}z_2 + 3z_2} + 11B_1 e^{2e^{-b_1}z_2 + 2z_2} - 6B_1 e^{3e^{-b_1}z_2 + z_2} + 4e^{e^{-b_1}z_2 + 3z_2} - 4e^{2e^{-b_1}z_2 + 2z_2} + 4e^{3e^{-b_1}z_2 + z_2}} \right) \right)$
L_{10a70}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1 e^{4e^{-b_1}z_2} + 7B_1 e^{e^{-b_1}z_2 + 3z_2} - 9B_1 e^{2e^{-b_1}z_2 + 2z_2} + 7B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 3e^{e^{-b_1}z_2 + 3z_2} + 3e^{2e^{-b_1}z_2 + 2z_2} - 3e^{3e^{-b_1}z_2 + z_2}} \right) \right)$
L_{10a71}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1 e^{4e^{-b_1}z_2} + 7B_1 e^{e^{-b_1}z_2 + 3z_2} - 11B_1 e^{2e^{-b_1}z_2 + 2z_2} + 7B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 4e^{e^{-b_1}z_2 + 3z_2} + 4e^{2e^{-b_1}z_2 + 2z_2} - 4e^{3e^{-b_1}z_2 + z_2}} \right) \right)$
L_{10a72}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 2B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{3b_1}z_2 + z_2} + 2B_1 e^{4e^{3b_1}z_2} - 4B_1 e^{e^{3b_1}z_2 + 3z_2} + 5B_1 e^{2e^{3b_1}z_2 + 2z_2} - 4B_1 e^{3e^{3b_1}z_2 + z_2} - e^{4e^{3b_1}z_2} + 2e^{e^{3b_1}z_2 + 3z_2} - 2e^{2e^{3b_1}z_2 + 2z_2} + 2e^{3e^{3b_1}z_2 + z_2}} \right) \right)$
L_{10a73}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2} + B_1 e^{\frac{5}{2}e^{3b_1}z_2} + e^{\frac{5}{2}e^{3b_1}z_2}}{3B_1^2 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - 5B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + 3B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 3e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - 2e^{2e^{3b_1}z_2 + \frac{z_2}{2}} - 2B_1^2 e^{\frac{5z_2}{2}} + 3B_1 e^{\frac{5z_2}{2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2} + B_1 e^{\frac{5}{2}e^{3b_1}z_2} + e^{\frac{5}{2}e^{3b_1}z_2}}{3B_2^2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} - 5B_2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} + 3B_2 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} + 3e^{e^{3b_2}z_1 + \frac{3z_1}{2}} - 2e^{2e^{3b_2}z_1 + \frac{z_1}{2}} - 2B_2^2 e^{\frac{5z_1}{2}} + 3B_2 e^{\frac{5z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a74}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1}z_2} - B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 2B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 2B_1^2 e^{3e^{3b_1}z_2 + z_2} - B_1 e^{4e^{3b_1}z_2} + 3B_1 e^{e^{3b_1}z_2 + 3z_2} - 3B_1 e^{2e^{3b_1}z_2 + 2z_2} + 3B_1 e^{3e^{3b_1}z_2 + z_2} - 2e^{e^{3b_1}z_2 + 3z_2} + 2e^{2e^{3b_1}z_2 + 2z_2} - 2e^{3e^{3b_1}z_2 + z_2}} \right) \right)$
L_{10a75}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2} + B_1 e^{\frac{5}{2}e^{3b_1}z_2} + e^{\frac{5}{2}e^{3b_1}z_2}}{-2B_1^2 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + 3B_1^2 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 5B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - 2B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} - 2e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - 2B_1 e^{\frac{5z_2}{2}} + 3e^{\frac{5z_2}{2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2} + B_1 e^{\frac{5}{2}e^{3b_1}z_2} + e^{\frac{5}{2}e^{3b_1}z_2}}{-2B_2^2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} + 3B_2^2 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} + 5B_2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} - 2B_2 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} - 2e^{e^{3b_2}z_1 + \frac{3z_1}{2}} + 3B_2 e^{\frac{5z_1}{2}} - 3e^{\frac{5z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

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Continued on next page

STABLE OF VALUES
 $(\{1\}, \{2\})$
 $z_1 - 5B_1$

Table B.1 – continued from previous page

Column 1	Column 2	
L_{10a84}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 2B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1 e^{4e^{-b_1}z_2} + 6B_1 e^{e^{-b_1}z_2 + 3z_2} - 7B_1 e^{2e^{-b_1}z_2 + 2z_2} + 6B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 2e^{e^{-b_1}z_2 + 3z_2} + 2e^{2e^{-b_1}z_2 + 2z_2} - 2e^{3e^{-b_1}z_2 + z_2}} \right) \right)$	
L_{10a85}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1}z_2} - 3B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 4B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{3b_1}z_2 + z_2} - 2B_1 e^{4e^{3b_1}z_2} + 6B_1 e^{e^{3b_1}z_2 + 3z_2} - 9B_1 e^{2e^{3b_1}z_2 + 2z_2} + 6B_1 e^{3e^{3b_1}z_2 + z_2} - 3e^{4e^{3b_1}z_2} + 4e^{e^{3b_1}z_2 + 3z_2} + 4e^{2e^{3b_1}z_2 + 2z_2} - 4e^{3e^{3b_1}z_2 + z_2}} \right) \right)$	
L_{10a86}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 4B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1 e^{4e^{-b_1}z_2} + 7B_1 e^{e^{-b_1}z_2 + 3z_2} - 11B_1 e^{2e^{-b_1}z_2 + 2z_2} + 7B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 3e^{e^{-b_1}z_2 + 3z_2} + 2e^{2e^{-b_1}z_2 + 2z_2} - 2e^{3e^{-b_1}z_2 + z_2}} \right) \right)$	
L_{10a87}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2} + B_1 e^{\frac{5}{2}e^{3b_1}z_2} + e^{\frac{5}{2}e^{3b_1}z_2}}{-4B_1^2 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + 4B_1^2 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 9B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - 4B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} - 4e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{5z_2}{2}} - 4B_1 e^{\frac{5z_2}{2}} + 4e^{\frac{5z_2}{2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{1}{-4B_2^2 e^{e^{3b_1}z_2 + 3z_2} + 4e^{2e^{3b_1}z_2 + 2z_2} - 4e^{3e^{3b_1}z_2 + z_2}} \right)_{(\{2\}, \{1\})}$	
L_{10a88}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{-2B_1^3 e^{e^{2b_1}z_2 + 2z_2} + B_1^3 e^{2e^{2b_1}z_2 + z_2} + B_1^2 e^{3e^{2b_1}z_2} + 7B_1^2 e^{e^{2b_1}z_2 + 2z_2} - 5B_1^2 e^{2e^{2b_1}z_2 + z_2} - 2B_1 e^{3e^{2b_1}z_2} - 5B_1 e^{e^{2b_1}z_2 + 2z_2} + 7B_1 e^{2e^{2b_1}z_2 + z_2} + e^{3e^{2b_1}z_2} + e^{e^{2b_1}z_2 + 2z_2} - 2e^{2e^{2b_1}z_2 + z_2}} \right) \right)$	
L_{10a89}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{2B_2^2 z_1 - 4B_2 z_1 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{10a90}	$\left((1)_{(\{1\}, \{2\})}, (1)_{(\{2\}, \{1\})} \right)$	
L_{10a91}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{2B_2^2 z_1 - 4B_2 z_1 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{10a92}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1}z_2} + B_1^3 e^{e^{2b_1}z_2 + 2z_2} - 2B_1^3 e^{2e^{2b_1}z_2 + z_2} - 2B_1^2 e^{3e^{2b_1}z_2} - 5B_1^2 e^{e^{2b_1}z_2 + 2z_2} + 5B_1^2 e^{2e^{2b_1}z_2 + z_2} + B_1 e^{3e^{2b_1}z_2} + 5B_1 e^{e^{2b_1}z_2 + 2z_2} - 5B_1 e^{2e^{2b_1}z_2 + z_2} - 2e^{3e^{2b_1}z_2} - 2e^{e^{2b_1}z_2 + 2z_2} + 2e^{2e^{2b_1}z_2 + z_2}} \right) \right)$	
	Continued on next page	

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Table B.1 – continued from previous page

Column 1	Column 2
L_{10a93}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{B_1^3 e^{3e^{2b_1} z_2 + B_1^3 e^{2b_1} z_2 + 2z_2} - 2B_1^3 e^{2e^{2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{2b_1} z_2} - 3B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 5B_1^2 e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3e^{2b_1} z_2} + 5B_1 e^{e^{2b_1} z_2 + 2z_2} - 3B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2}} \right) \right)$
L_{10a94}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2 + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 \left(-e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} \right) + 2B_1^3 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} + 4B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - 4B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} + 2B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} - 4B_1 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} + 4B_1 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - B_1 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + 2e^{e^{4b_1} z_2}} \right) \right)$
L_{10a95}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 + B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a96}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2 + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 \left(-e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} \right) + 2B_1^3 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} + 5B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - 5B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} + 2B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} - 5B_1 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} + 5B_1 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - B_1 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + 2e^{e^{4b_1} z_2}} \right) \right)$
L_{10a97}	$\left(\left(\frac{B_1^3 \left(-e^{\frac{7}{2} e^{4b_1} z_2} \right) - B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} - B_1 e^{\frac{7}{2} e^{4b_1} z_2} - e^{\frac{7}{2} e^{4b_1} z_2}}{-2B_1^3 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} + B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} - 2B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} + 3B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - 2B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + 3B_1 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - 2B_1 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - 2e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - 2B_1 e^{\frac{7z_2^2}{2}}} \right) \right)$
L_{10a98}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2 + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 \left(-e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} \right) + 2B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} - B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} + 3B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + 3B_1 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - B_1 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - B_1 e^{\frac{7z_2^2}{2}}} \right) \right)$
L_{10a99}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{-2B_1^3 e^{e^{2b_1} z_2 + 2z_2} + B_1^3 e^{2e^{2b_1} z_2 + z_2} + B_1^2 e^{3e^{2b_1} z_2} + 3B_1^2 e^{e^{2b_1} z_2 + 2z_2} - 3B_1^2 e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3e^{2b_1} z_2} - 3B_1 e^{e^{2b_1} z_2 + 2z_2} + 3B_1 e^{2e^{2b_1} z_2 + z_2} + e^{3e^{2b_1} z_2} + e^{e^{2b_1} z_2}} \right) \right)$
L_{10a100}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2 + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 \left(-e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} \right) + 2B_1^3 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} + 3B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - 3B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} + 2B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} - 3B_1 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} + 3B_1 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - B_1 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + 2e^{e^{4b_1} z_2}} \right) \right)$
Continued on next page	

TABLE OF VALUES

Table B.1 – continued from previous page

Column 1	Column 2
L_{10a101}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{2B_1^3 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - 5B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + 4B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + 4B_1 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - 5B_1 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + 2B_1 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + 2e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^3 \left(-e^{\frac{7z_2}{2}} \right)} \right) \right)$
L_{10a102}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 \left(-e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} \right) + 2B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} - 2B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + 4B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + 4B_1 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - 2B_1 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - e^{4b_1} z_2 + \frac{5z_2}{2}} - B_1 e^{\frac{7z_2}{2}} \right)} \right)$
L_{10a103}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a104}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}} \right) - B_1 e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}}}{B_1^3 e^{3e^{-2b_1} z_2 + 2B_1^3 e^{-2b_1} z_2 + 2z_2} - 3B_1^3 e^{2e^{-2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{-2b_1} z_2} - 7B_1^2 e^{e^{-2b_1} z_2 + 2z_2} + 7B_1^2 e^{2e^{-2b_1} z_2 + z_2} + B_1 e^{3e^{-2b_1} z_2} + 7B_1 e^{e^{-2b_1} z_2 + 2z_2} - 7B_1 e^{2e^{-2b_1} z_2}} \right) \right)$
L_{10a105}	$\left(\left(\frac{B_1^3 \left(-e^{\frac{7}{2} e^{4b_1} z_2} \right) - B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} - B_1 e^{\frac{7}{2} e^{4b_1} z_2} - e^{\frac{7}{2} e^{4b_1} z_2}}{-2B_1^3 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} - 3B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + 4B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - 2B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + 4B_1 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - 3B_1 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - 2e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - 2B_1 e^{\frac{7z_2}{2}}} \right) \right)$
L_{10a106}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2 + 2B_1^3 e^{2b_1} z_2 + 2z_2} - 3B_1^3 e^{2e^{2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{2b_1} z_2} - 5B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 7B_1^2 e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3e^{2b_1} z_2} + 7B_1 e^{e^{2b_1} z_2 + 2z_2} - 5B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{e^{2b_1} z_2}} \right) \right)$
L_{10a107}	$\left(\left(\frac{B_1^3 \left(-e^{\frac{7}{2} e^{4b_1} z_2} \right) - B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} - B_1 e^{\frac{7}{2} e^{4b_1} z_2} - e^{\frac{7}{2} e^{4b_1} z_2}}{-2B_1^3 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + B_1^3 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + 7B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - 7B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + 2B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} - 7B_1 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + 7B_1 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - 3B_1 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + e^{e^{4b_1} z_2 + \frac{5z_2}{2}}} \right) \right)$
L_{10a108}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-2B_1^3 e^{2e^{2b_1} z_2 + 2z_2} + 2B_1^3 e^{2e^{2b_1} z_2 + z_2} + 2B_1^2 e^{3e^{2b_1} z_2} + 6B_1^2 e^{e^{2b_1} z_2 + 2z_2} - 6B_1^2 e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3e^{2b_1} z_2} - 6B_1 e^{e^{2b_1} z_2 + 2z_2} + 6B_1 e^{2e^{2b_1} z_2 + z_2} + e^{3e^{2b_1} z_2} + 2e^{e^{2b_1} z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{10a109}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1^2 + B_1 + z_2 - 1} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 - B_2^3 + B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a110}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} + 2B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 2B_1^3 e^{2e^{2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{2b_1} z_2} - 2B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 2B_1^2 e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3e^{2b_1} z_2} + 2B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{3e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 - B_2^3 + B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a111}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a112}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a113}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - 3B_1^3 z_2 + 4B_1^2 z_2 - 3B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a114}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^3 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^3 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} - B_1 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + B_1 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + B_1 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + 2e^{5b_1} z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a115}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + B_1^3 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - 2B_1^3 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 2B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} - 2B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + 3B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - 2B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^2 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + 2e^{5b_1} z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a116}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 2B_1^3 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - 3B_1^3 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 2B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} - 3B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + 5B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - 3B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^2 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + 2e^{5b_1} z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10a117}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + 2B_1^3 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - 2B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^3 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + 2B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - 3B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 2B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} - 2B_1 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + 2B_1 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 2B_1 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + 2e^{5b_1} z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{10a118}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + B_1 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + e^{\frac{9z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{9}{2} e^{5b_2} z_1} + B_2^3 e^{\frac{9}{2} e^{5b_2} z_1} + B_2^2 e^{\frac{9}{2} e^{5b_2} z_1} + B_2 e^{\frac{9}{2} e^{5b_2} z_1} + e^{\frac{9}{2} e^{5b_2} z_1}}{B_2^4 e^{4e^{5b_2} z_1 + \frac{z_1}{2}} + B_2^3 e^{3e^{5b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} + B_2 e^{e^{5b_2} z_1 + \frac{7z_1}{2}} + e^{\frac{9z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a119}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - 3B_1^3 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + 3B_1^3 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 3B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - 5B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 3B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + 3B_1 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - 3B_1 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + B_1 e^{e^{5b_1} z_2 + \frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{9}{2} e^{5b_2} z_1} + B_2^3 e^{\frac{9}{2} e^{5b_2} z_1} + B_2^2 e^{\frac{9}{2} e^{5b_2} z_1} + B_2 e^{\frac{9}{2} e^{5b_2} z_1} + e^{\frac{9}{2} e^{5b_2} z_1}}{B_2^4 e^{e^{5b_2} z_1 + \frac{7z_1}{2}} - 3B_2^3 e^{e^{5b_2} z_1 + \frac{7z_1}{2}} + 3B_2^3 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} + 3B_2^2 e^{e^{5b_2} z_1 + \frac{7z_1}{2}} - 5B_2^2 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} + 3B_2^2 e^{3e^{5b_2} z_1 + \frac{3z_1}{2}} + 3B_2 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} - 3B_2 e^{3e^{5b_2} z_1 + \frac{3z_1}{2}} + B_2 e^{4e^{5b_2} z_1 + \frac{z_1}{2}} + B_2 e^{e^{5b_2} z_1 + \frac{7z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a120}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + B_1^3 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - B_1^3 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} - B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^2 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + B_1 e^{e^{5b_1} z_2 + \frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{9}{2} e^{5b_2} z_1} + B_2^3 e^{\frac{9}{2} e^{5b_2} z_1} + B_2^2 e^{\frac{9}{2} e^{5b_2} z_1} + B_2 e^{\frac{9}{2} e^{5b_2} z_1} + e^{\frac{9}{2} e^{5b_2} z_1}}{B_2^4 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} + B_2^3 e^{e^{5b_2} z_1 + \frac{7z_1}{2}} - B_2^3 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} + B_2^3 e^{3e^{5b_2} z_1 + \frac{3z_1}{2}} - B_2^2 e^{e^{5b_2} z_1 + \frac{7z_1}{2}} + B_2^2 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} - B_2^2 e^{3e^{5b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{4e^{5b_2} z_1 + \frac{z_1}{2}} + B_2 e^{e^{5b_2} z_1 + \frac{7z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10a121}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 3B_1^3 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - 5B_1^3 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + 3B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} - 5B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + 9B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - 5B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^2 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + B_1 e^{e^{5b_1} z_2 + \frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{9}{2} e^{5b_2} z_1} + B_2^3 e^{\frac{9}{2} e^{5b_2} z_1} + B_2^2 e^{\frac{9}{2} e^{5b_2} z_1} + B_2 e^{\frac{9}{2} e^{5b_2} z_1} + e^{\frac{9}{2} e^{5b_2} z_1}}{B_2^4 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} + 3B_2^3 e^{e^{5b_2} z_1 + \frac{7z_1}{2}} - 5B_2^3 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} + 3B_2^3 e^{3e^{5b_2} z_1 + \frac{3z_1}{2}} - 5B_2^2 e^{e^{5b_2} z_1 + \frac{7z_1}{2}} + 9B_2^2 e^{2e^{5b_2} z_1 + \frac{5z_1}{2}} - 5B_2^2 e^{3e^{5b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{4e^{5b_2} z_1 + \frac{z_1}{2}} + B_2 e^{e^{5b_2} z_1 + \frac{7z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n1}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 2B_1 e^{3e^{2b_1} z_2 + 2z_2} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 4z_2} + 2e^{2e^{2b_1} z_2 + 3z_2} + e^{5z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{3}{2} e^{2b_2} z_1} + B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n2}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 + B_2^4 - 3B_2^3 + 5B_2^2 - 3B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n3}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^4 - 3B_2^3 + 5B_2^2 - 3B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n4}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 - 2B_1 e^{2e^{2b_1} z_2 + 3z_2} + 2B_1 e^{3e^{2b_1} z_2 + 2z_2} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 4z_2} + 2e^{2e^{2b_1} z_2 + 3z_2} - 2e^{3e^{2b_1} z_2 + 2z_2} + e^{5z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{3}{2} e^{2b_2} z_1} + B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n5}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 + B_2^4 - 3B_2^3 + 3B_2^2 - 3B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{10n6}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 - B_2^4 + 3B_2^3 - 3B_2^2 + 3B_2 + z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n7}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2} - 3B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{e^{2b_1} z_2 + 2z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 3B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 3B_2 e^{\frac{3z_1}{2} + 2e^{\frac{3z_1}{2}}}} \right)_{(\{2\}, \{1\})} \right)$
L_{10n8}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{2B_2^2 z_1 - 4B_2 z_1 + 2B_2^2 - 5B_2 + 2z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{10n9}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 - 2B_2^2 + 5B_2 + z_1 - 2} \right)_{(\{2\}, \{1\})} \right)$
L_{10n10}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 4z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2 e^{\frac{3z_1}{2} + e^{\frac{3z_1}{2}}}} \right)_{(\{2\}, \{1\})} \right)$
L_{10n11}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 + B_2^4 - 3B_2^3 + 3B_2^2 - 3B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n12}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 5B_2^3 z_1 + 8B_2^2 z_1 - 5B_2 z_1 + B_2^4 - 3B_2^3 + 3B_2^2 - 3B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n13}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} - B_1 e^{2e^{2b_1} z_2 + 3z_2} + B_1 e^{3e^{2b_1} z_2 + 2z_2} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 4z_2} + e^{2e^{2b_1} z_2 + 3z_2} - e^{3e^{2b_1} z_2 + 2z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2 e^{\frac{3z_1}{2} + e^{\frac{3z_1}{2}}}} \right)_{(\{2\}, \{1\})} \right)$
L_{10n14}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^3 z_1 + 2B_2^2 z_1 - B_2 z_1 + B_2^4 - 3B_2^3 + 3B_2^2 - 3B_2 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n15}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 4B_2^4 z_1 - 4B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + 2B_2^4 - 3B_2^3 + 2B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{10n16}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 + B_2^4 - B_2^3 + B_2^2 - B_2 + 2z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n17}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} - B_1 e^{2e^{2b_1} z_2 + 3z_2} + 3B_1 e^{3e^{2b_1} z_2 + 2z_2} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{2b_1 z_2 + 4z_2} + 3e^{2e^{2b_1} z_2 + 3z_2} - e^{3e^{2b_1} z_2 + 2z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^4 e^{e^{2b_2} z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n18}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^3 z_1 - 2B_2^2 z_1 + B_2 z_1 + B_2^4 - 3B_2^3 + 5B_2^2 - 3B_2 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n19}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{e^{2b_1} z_2 + 2z_2} + e^{2e^{2b_1} z_2 + z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n20}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 5B_2^3 z_1 + 8B_2^2 z_1 - 5B_2 z_1 + 2B_2^3 - 5B_2^2 + 2B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n21}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n22}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 - 2B_2^3 + 3B_2^2 - 2B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n23}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 2B_2^5 z_1 + B_2^4 z_1 + B_2^2 z_1 - 2B_2 z_1 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n24}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n25}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-2B_1 e^{e^{2b_1} z_2 + 4z_2} - B_1 e^{2e^{2b_1} z_2 + 3z_2} + B_1 e^{3e^{2b_1} z_2 + 2z_2} + e^{5e^{2b_1} z_2} + e^{2e^{2b_1} z_2 + 3z_2} - e^{3e^{2b_1} z_2 + 2z_2} - 2e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^2 e^{e^{2b_2} z_1}} \right)_{(\{1\}, \{2\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{10n26}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{B_1 e^{3e^{2b_1} z_2} + 5B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 2z_2} + 5e^{2e^{2b_1} z_2 + z_2} + B_1 (-e^{3z_2}) + e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 5B_2 e^{e^{2b_2} z_1}} \right)_{(\{1\}, \{2\})}$
L_{10n27}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{B_1 e^{3e^{2b_1} z_2} + 3B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 2z_2} + 3e^{2e^{2b_1} z_2 + z_2} + B_1 (-e^{3z_2}) + e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 3B_2 e^{e^{2b_2} z_1}} \right)_{(\{1\}, \{2\})}$
L_{10n28}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{B_1 e^{3e^{2b_1} z_2} - B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} + e^{3e^{2b_1} z_2} - 2e^{e^{2b_1} z_2 + 2z_2} - e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^2 \left(-e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 2B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - B_2 e^{e^{2b_2} z_1} \right) \right)_{(\{1\}, \{2\})}$
L_{10n29}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{B_1 e^{5e^{2b_1} z_2} + B_1 e^{e^{2b_1} z_2 + 4z_2} - 4B_1 e^{2e^{2b_1} z_2 + 3z_2} + 4B_1 e^{3e^{2b_1} z_2 + 2z_2} - 3B_1 e^{4e^{2b_1} z_2 + z_2} - 3e^{e^{2b_1} z_2 + 4z_2} + 4e^{2e^{2b_1} z_2 + 3z_2} - 4e^{3e^{2b_1} z_2 + 2z_2} + e^{4e^{2b_1} z_2 + z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} - B_2 e^{\frac{3}{2} e^{2b_2} z_1} \right) \right)_{(\{1\}, \{2\})}$
L_{10n30}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{B_1 e^{5e^{2b_1} z_2} + B_1 e^{e^{2b_1} z_2 + 4z_2} - 2B_1 e^{2e^{2b_1} z_2 + 3z_2} + 4B_1 e^{3e^{2b_1} z_2 + 2z_2} - 3B_1 e^{4e^{2b_1} z_2 + z_2} - 3e^{e^{2b_1} z_2 + 4z_2} + 4e^{2e^{2b_1} z_2 + 3z_2} - 2e^{3e^{2b_1} z_2 + 2z_2} + e^{4e^{2b_1} z_2 + z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} - B_2 e^{\frac{3}{2} e^{2b_2} z_1} \right) \right)_{(\{1\}, \{2\})}$
L_{10n31}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + 2B_1 e^{e^{2b_1} z_2 + 2z_2} - 5B_1 e^{2e^{2b_1} z_2 + z_2} - 5e^{e^{2b_1} z_2 + 2z_2} + 2e^{2e^{2b_1} z_2 + z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} - B_2 e^{\frac{3}{2} e^{2b_2} z_1} \right) \right)_{(\{1\}, \{2\})}$
L_{10n32}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{2B_2^2 - 5B_2 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{10n33}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 6B_2^3 z_1 + 10B_2^2 z_1 - 6B_2 z_1 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n34}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{3B_2^2 z_1 - 6B_2 z_1 - B_2^2 + B_2 + 3z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{10n35}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 6B_2^3 z_1 + 8B_2^2 z_1 - 6B_2 z_1 - B_2^4 + 2B_2^3 - 3B_2^2 + 2B_2 + 2z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n36}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 - 2B_2^3 + 3B_2^2 - 2B_2 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n37}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-B_1 e^{2e^{2b_1} z_2 + 3z_2} + 2B_1 e^{3e^{2b_1} z_2 + 2z_2} - B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} - e^{2b_1 z_2 + 4z_2} + 2e^{2e^{2b_1} z_2 + 3z_2} - e^{3e^{2b_1} z_2 + 2z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{2b_2 z_1 + \frac{z_1}{2}} - 2B_2^3 e^{2b_2 z_1 + \frac{z_1}{2}}}{B_2^4 e^{2b_2 z_1 + \frac{z_1}{2}} - 2B_2^3 e^{2b_2 z_1 + \frac{z_1}{2}} - 2B_2^2 e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2 e^{2b_2 z_1 + \frac{z_1}{2}} - B_2^4 + 2B_2^3 - 3B_2^2 + 2B_2 + 2z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n38}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-2B_1 e^{2e^{2b_1} z_2 + 4z_2} + 3B_1 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1 e^{3e^{2b_1} z_2 + 2z_2} + B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + e^{2b_1 z_2 + 4z_2} - 2e^{2e^{2b_1} z_2 + 3z_2} + 3e^{3e^{2b_1} z_2 + 2z_2} - 2e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 2B_2^5 z_1 + 2B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 - B_2^5 + 2B_2^4 - 3B_2^3 + 2B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n39}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 2B_2^5 z_1 + 2B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 - B_2^5 + 2B_2^4 - 3B_2^3 + 2B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n40}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{-B_1^2 e^{e^{-b_1} z_2 + 3z_2} - B_1 e^{4e^{-b_1} z_2 + 2z_2} + 2B_1 e^{e^{-b_1} z_2 + 3z_2} - B_1 e^{2e^{-b_1} z_2 + 2z_2} + 2B_1 e^{3e^{-b_1} z_2 + z_2} + e^{4e^{-b_1} z_2} - e^{3e^{-b_1} z_2 + 2z_2} + B_1^2 e^{4z_2} - B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{1}{2} e^{-b_2} z_1 + \frac{z_1}{2}}}{-B_2^4 e^{e^{-b_2} z_1 + z_1} - 2B_2^3 e^{e^{-b_2} z_1 + z_1} - 2B_2^2 e^{e^{-b_2} z_1 + z_1} + 2B_2 e^{e^{-b_2} z_1 + z_1} - B_2^4 + 2B_2^3 - 3B_2^2 + 2B_2 + 2z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n41}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - 2B_1^2 e^{e^{b_1} z_2 + z_2} - B_1 e^{2e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 2e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} - 2B_2 e^{2e^{b_2} z_1} + 2B_2 e^{e^{b_2} z_1 + z_1} - B_2^2 + 2B_2 - 2z_1 + 1}{B_2^4 e^{2e^{b_2} z_1} - 2B_2^3 e^{2e^{b_2} z_1} + 2B_2^2 e^{2e^{b_2} z_1} - 2B_2 e^{2e^{b_2} z_1} + B_2^4 - 2B_2^3 + 3B_2^2 - 2B_2 + 2z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n42}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^2 (-e^{4e^{-b_1} z_2}) + B_1^2 e^{3e^{-b_1} z_2 + z_2} + B_1 e^{4e^{-b_1} z_2} - B_1 e^{2e^{-b_1} z_2 + 2z_2} + e^{e^{-b_1} z_2 + 3z_2} + B_1 e^{4z_2} - e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{1}{2} e^{-b_2} z_1 + \frac{z_1}{2}}}{B_2^4 (-e^{2e^{-b_2} z_1}) + B_2^4 e^{e^{-b_2} z_1 + z_1} + B_2^4 e^{2e^{-b_2} z_1} - B_2^4 + 2B_2^3 - 3B_2^2 + 2B_2 + 2z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n43}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + z_2} - 2B_1 e^{2e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 3e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - 2B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2 e^{2e^{b_2} z_1} - 2B_2^2 e^{e^{b_2} z_1 + z_1} - 3B_2 e^{2e^{b_2} z_1} + 3B_2 e^{e^{b_2} z_1 + z_1} - B_2^2 + 2B_2 - 2z_1 + 1}{B_2^4 e^{2e^{b_2} z_1} - 2B_2^3 e^{2e^{b_2} z_1} + 2B_2^2 e^{2e^{b_2} z_1} - 2B_2 e^{2e^{b_2} z_1} + B_2^4 - 2B_2^3 + 3B_2^2 - 2B_2 + 2z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$

Continued on next page

Table B.1 – continued from previous page

Column 1	Column 2
L_{10n44}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{e^{b_1}z_2 + z_2} + B_1 e^{2e^{b_1}z_2} - 3B_1 e^{e^{b_1}z_2 + z_2} - e^{2e^{b_1}z_2} + e^{e^{b_1}z_2 + z_2} + B_1^2(-e^{2z_2}) + B_1 e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2 e^{\frac{3}{2}e^{b_2}z_1 + \frac{z_1}{2}}}{B_2^2 e^{e^{b_2}z_1 + z_1} + B_2 e^{2e^{b_2}z_1} - 3B_2 e^{e^{b_2}z_1 + z_1} - e^{2e^{b_2}z_1} + e^{e^{b_2}z_1 + z_1} + B_2^2(-e^{2z_1}) + B_2 e^{2z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n45}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1}z_2} - B_1 e^{2e^{b_1}z_2} - B_1 e^{e^{b_1}z_2 + z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2 e^{\frac{3}{2}e^{b_2}z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2}z_1} - B_2^2 e^{e^{b_2}z_1 + z_1} - B_2 e^{e^{b_2}z_1 + z_1} - e^{e^{b_2}z_1 + z_1} + e^{2z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{10n46}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 \left(-e^{2e^{3b_1}z_2 + 2z_2} \right) + B_1 e^{4e^{3b_1}z_2} - 2B_1 e^{e^{3b_1}z_2 + 3z_2} + B_1 e^{2e^{3b_1}z_2 + 2z_2} - 2B_1 e^{3e^{3b_1}z_2 + z_2} - e^{2e^{3b_1}z_2 + 2z_2} + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 \left(-e^{3b_2}z_1 + \frac{3z_1}{2} \right) + 2B_2^3 e^{3b_2}z_1}{B_2^4 \left(-e^{3b_2}z_1 + \frac{3z_1}{2} \right) + 2B_2^3 e^{3b_2}z_1} \right)_{(\{1\}, \{2\})} \right)$
L_{10n47}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1}z_2 + 3z_2} - B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + B_1 e^{4e^{3b_1}z_2} - 2B_1 e^{e^{3b_1}z_2 + 3z_2} + 3B_1 e^{2e^{3b_1}z_2 + 2z_2} - 2B_1 e^{3e^{3b_1}z_2 + z_2} - e^{2e^{3b_1}z_2 + 2z_2} + 2e^{3e^{3b_1}z_2 + z_2} + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}} + B_2 e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}} + e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2}z_1} - B_2^2 e^{e^{b_2}z_1 + z_1} - 2B_2 e^{2e^{b_2}z_1} + 5B_2 e^{e^{b_2}z_1 + z_1} - e^{e^{b_2}z_1 + z_1} + B_2^2(-e^{2z_1}) + B_2 e^{2z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n48}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + z_2} - B_1 e^{2e^{b_1}z_2} + 5B_1 e^{e^{b_1}z_2 + z_2} - 2e^{e^{b_1}z_2 + z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2 e^{\frac{3}{2}e^{b_2}z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2}z_1} - B_2^2 e^{e^{b_2}z_1 + z_1} - 2B_2 e^{2e^{b_2}z_1} + 5B_2 e^{e^{b_2}z_1 + z_1} - e^{e^{b_2}z_1 + z_1} + B_2^2(-e^{2z_1}) + B_2 e^{2z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n49}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1}z_2} - 2B_1^2 e^{3e^{3b_1}z_2 + z_2} - B_1 e^{2e^{3b_1}z_2 + 2z_2} - 2e^{e^{3b_1}z_2 + 3z_2} + e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 \left(-e^{\frac{5}{2}e^{3b_2}z_1} \right) - B_2^2 e^{\frac{5}{2}e^{3b_2}z_1} - B_2 e^{\frac{5}{2}e^{3b_2}z_1}}{B_2^4 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} - 2B_2^3 e^{2e^{3b_2}z_1 + \frac{z_1}{2}} - B_2^2 e^{e^{3b_2}z_1 + \frac{3z_1}{2}} - 2B_2 e^{\frac{5z_1}{2}} + e^{\frac{5z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n50}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1}z_2} + B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1}z_2 + z_2} - B_1 e^{4e^{b_1}z_2} + 2B_1 e^{e^{b_1}z_2 + 3z_2} - B_1 e^{2e^{b_1}z_2 + 2z_2} + 2B_1 e^{3e^{b_1}z_2 + z_2} - 2e^{e^{b_1}z_2 + 3z_2} + e^{2e^{b_1}z_2 + 2z_2} - B_1 e^{4z_2} + e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{5}{2}e^{b_2}z_1 + \frac{3z_1}{2}}}{B_2^2 e^{2e^{b_2}z_1} - B_2^2 e^{e^{b_2}z_1 + z_1} - 2B_2 e^{2e^{b_2}z_1} + 5B_2 e^{e^{b_2}z_1 + z_1} - e^{e^{b_2}z_1 + z_1} + B_2^2(-e^{2z_1}) + B_2 e^{2z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{10n51}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 2B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + B_1 e^{4e^{3b_1}z_2} - 3B_1 e^{e^{3b_1}z_2 + 3z_2} + 3B_1 e^{2e^{3b_1}z_2 + 2z_2} - 3B_1 e^{3e^{3b_1}z_2 + z_2} - 2e^{2e^{3b_1}z_2 + 2z_2} + e^{3e^{3b_1}z_2 + z_2} + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{5}{2}e^{b_2}z_1 + \frac{3z_1}{2}}}{B_2^2 e^{2e^{b_2}z_1} - B_2^2 e^{e^{b_2}z_1 + z_1} - 2B_2 e^{2e^{b_2}z_1} + 5B_2 e^{e^{b_2}z_1 + z_1} - e^{e^{b_2}z_1 + z_1} + B_2^2(-e^{2z_1}) + B_2 e^{2z_1}} \right)_{(\{1\}, \{2\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{10n52}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1 z_2} + \frac{3z_2}{2}}}{2B_1^2 e^{e^{b_1 z_2} + 3z_2} - B_1^2 e^{2e^{b_1 z_2} + 2z_2} + B_1 e^{4e^{b_1 z_2}} - 3B_1 e^{e^{b_1 z_2} + 3z_2} + 5B_1 e^{2e^{b_1 z_2} + 2z_2} - 3B_1 e^{3e^{b_1 z_2} + z_2} - e^{4e^{b_1 z_2}} - e^{2e^{b_1 z_2} + 2z_2} + 2e^{3e^{b_1 z_2} + z_2} + B_1^2 (-e^{4z_2}) + B_1 e^{4z_2}} \right) \right)$
L_{10n53}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{3b_1 z_2}} \right) - B_1 e^{\frac{5}{2} e^{3b_1 z_2}} - e^{\frac{5}{2} e^{3b_1 z_2}}}{-3B_1^2 e^{e^{3b_1 z_2} + \frac{3z_2}{2}} + B_1^2 e^{2e^{3b_1 z_2} + \frac{z_2}{2}} + 5B_1 e^{e^{3b_1 z_2} + \frac{3z_2}{2}} - 3B_1 e^{2e^{3b_1 z_2} + \frac{z_2}{2}} - 3e^{e^{3b_1 z_2} + \frac{3z_2}{2}} + e^{2e^{3b_1 z_2} + \frac{z_2}{2}} + B_1^2 e^{\frac{5z_2}{2}} - 3B_1 e^{\frac{5z_2}{2}} + e^{\frac{5z_2}{2}}} \right) \right)_{(\{1\}, \{2\})}, \left(\frac{B_1^2 e^{\frac{5}{2} e^{3b_1 z_2}}}{-3B_2^2 e^{e^{3b_1 z_2} + \frac{3z_2}{2}} + B_2^2 e^{2e^{3b_1 z_2} + \frac{z_2}{2}} + 5B_2 e^{e^{3b_1 z_2} + \frac{3z_2}{2}} - 3B_2 e^{2e^{3b_1 z_2} + \frac{z_2}{2}} - 3e^{e^{3b_1 z_2} + \frac{3z_2}{2}} + e^{2e^{3b_1 z_2} + \frac{z_2}{2}} + B_2^2 e^{\frac{5z_2}{2}} - 3B_2 e^{\frac{5z_2}{2}} + e^{\frac{5z_2}{2}}} \right)_{(\{1\}, \{2\})}$
L_{10n54}	$\left(\left(\frac{B_1^2 e^{\frac{1}{2} e^{-2b_1 z_2} + \frac{5z_2}{2}} + B_1 e^{\frac{1}{2} e^{-2b_1 z_2} + \frac{5z_2}{2}}}{B_1^3 (-e^{3e^{-2b_1 z_2}}) + B_1^3 e^{2e^{-2b_1 z_2} + z_2} + B_1^2 e^{3e^{-2b_1 z_2} + e^{-2b_1 z_2} + 2z_2} + B_1 e^{3z_2} - e^{3z_2}} \right) \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{1}{2} e^{-2b_2 z_1} + \frac{5z_1}{2}} + B_2 e^{\frac{1}{2} e^{-2b_2 z_1} + \frac{5z_1}{2}}}{B_2^3 (-e^{3e^{-2b_2 z_1}}) + B_2^3 e^{2e^{-2b_2 z_1} + z_1} + B_2^2 e^{3e^{-2b_2 z_1} + e^{-2b_2 z_1} + 2z_1} + B_2 e^{3z_1} - e^{3z_1}} \right)_{(\{1\}, \{2\})}$
L_{10n55}	$\left(\left(\frac{B_1^3 \left(-e^{\frac{7}{2} e^{4b_1 z_2}} \right) - B_1^2 e^{\frac{7}{2} e^{4b_1 z_2}} - B_1 e^{\frac{7}{2} e^{4b_1 z_2}} - e^{\frac{7}{2} e^{4b_1 z_2}}}{B_1^3 (-e^{e^{4b_1 z_2} + \frac{5z_2}{2}}) + 3B_1^2 e^{e^{4b_1 z_2} + \frac{5z_2}{2}} - 3B_1^2 e^{2e^{4b_1 z_2} + \frac{3z_2}{2}} + B_1^2 e^{3e^{4b_1 z_2} + \frac{z_2}{2}} - 3B_1 e^{e^{4b_1 z_2} + \frac{5z_2}{2}} + 3B_1 e^{2e^{4b_1 z_2} + \frac{3z_2}{2}} - 2B_1 e^{3e^{4b_1 z_2} + \frac{z_2}{2}} - e^{2e^{4b_1 z_2} + \frac{3z_2}{2}} - 2B_1 e^{e^{4b_1 z_2} + \frac{5z_2}{2}}} \right) \right)$
L_{10n56}	$\left(\left(\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 + B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n57}	$\left(\left(\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 + B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n58}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - 2B_1^3 z_2 + 2B_1^2 z_2 - 2B_1 z_2 - B_1^3 + B_1^2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n59}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - 4B_1^3 z_2 + 6B_1^2 z_2 - 4B_1 z_2 - B_1^3 + B_1^2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 + B_2^3 - B_2^2 + B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n60}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1 z_2} + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1 z_2} + \frac{z_2}{2}}}{-2B_1^2 e^{e^{2b_1 z_2} + 2z_2} + 2B_1^2 e^{2e^{2b_1 z_2} + z_2} + 2B_1 e^{e^{2b_1 z_2} + 2z_2} - 2B_1 e^{2e^{2b_1 z_2} + z_2} + e^{3e^{2b_1 z_2} + B_1^3 e^{3z_2}}} \right) \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{5}{2} e^{2b_2 z_1} + \frac{z_1}{2}} + B_2 e^{\frac{5}{2} e^{2b_2 z_1} + \frac{z_1}{2}}}{-2B_2^2 e^{e^{2b_2 z_1} + 2z_1} + 2B_2^2 e^{2e^{2b_2 z_1} + z_1} + 2B_2 e^{e^{2b_2 z_1} + 2z_1} - 2B_2 e^{2e^{2b_2 z_1} + z_1} + e^{3e^{2b_2 z_1} + B_2^3 e^{3z_1}}} \right)_{(\{1\}, \{2\})}$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{10n61}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{3e^{2b_1} z_2} + 2B_1^2 e^{e^{2b_1} z_2 + 2z_2} - 2B_1^2 e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3e^{2b_1} z_2} - 2B_1 e^{e^{2b_1} z_2 + 2z_2} + 2B_1 e^{2e^{2b_1} z_2 + z_2} + e^{3e^{2b_1} z_2} + B_1^3 e^{3z_2} - 2B_1^2 e^{3z_2} + 2B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(- \right)_{(\{1\}, \{2\})} \right)$
L_{10n62}	$\left(\left(- \frac{B_1^2}{2B_1^4 z_2 - 5B_1^3 z_2 + 6B_1^2 z_2 - 5B_1 z_2 - B_1^3 + B_1^2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(- \frac{B_2^2}{2B_2^4 z_1 - 5B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 - B_2^3 + B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{10n63}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} + B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 2B_1^3 e^{2e^{2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{2b_1} z_2} - 4B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 4B_1^2 e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3e^{2b_1} z_2} + 4B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{2e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(- \right)_{(\{2\}, \{1\})} \right)$
L_{10n64}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-B_1^3 e^{e^{2b_1} z_2 + 2z_2} + B_1^2 e^{3e^{2b_1} z_2} + 3B_1^2 e^{e^{2b_1} z_2 + 2z_2} - B_1^2 e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3e^{2b_1} z_2} - B_1 e^{e^{2b_1} z_2 + 2z_2} + 3B_1 e^{2e^{2b_1} z_2 + z_2} + e^{3e^{2b_1} z_2} - e^{2e^{2b_1} z_2 + z_2} + B_1^3 e^{3z_2} - 2B_1^2 e^{3z_2} + 2B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(- \right)_{(\{2\}, \{1\})} \right)$
L_{11a1}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(- \frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 18B_2^4 z_1 - 24B_2^3 z_1 + 18B_2^2 z_1 - 7B_2 z_1 + B_2^4 - 3B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a2}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 20B_2^4 z_1 - 28B_2^3 z_1 + 20B_2^2 z_1 - 7B_2 z_1 - B_2^4 + 3B_2^3 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a3}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(- \frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 18B_2^4 z_1 - 24B_2^3 z_1 + 18B_2^2 z_1 - 7B_2 z_1 - B_2^4 + B_2^3 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a4}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 8B_2^5 z_1 + 15B_2^4 z_1 - 18B_2^3 z_1 + 15B_2^2 z_1 - 8B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a5}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{3B_2^4 z_1 - 11B_2^3 z_1 + 16B_2^2 z_1 - 11B_2 z_1 + B_2^2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a6}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 8B_2^5 z_1 + 15B_2^4 z_1 - 18B_2^3 z_1 + 15B_2^2 z_1 - 8B_2 z_1 + 2B_2^4 - 3B_2^3 + 2B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a7}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 7B_2^5 z_1 + 11B_2^4 z_1 - 12B_2^3 z_1 + 11B_2^2 z_1 - 7B_2 z_1 + 2B_2^4 - 3B_2^3 + 2B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a8}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 20B_2^4 z_1 - 28B_2^3 z_1 + 20B_2^2 z_1 - 7B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a9}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{4B_2^4 z_1 - 15B_2^3 z_1 + 22B_2^2 z_1 - 15B_2 z_1 + B_2^3 - B_2^2 + B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a10}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{4B_2^4 z_1 - 15B_2^3 z_1 + 22B_2^2 z_1 - 15B_2 z_1 + 2B_2^3 - 3B_2^2 + 2B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a11}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 20B_2^4 z_1 - 28B_2^3 z_1 + 20B_2^2 z_1 - 7B_2 z_1 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a12}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 18B_2^4 z_1 - 24B_2^3 z_1 + 18B_2^2 z_1 - 7B_2 z_1 - 2B_2^4 + 3B_2^3 - 2B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a13}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 18B_2^4 z_1 - 24B_2^3 z_1 + 18B_2^2 z_1 - 7B_2 z_1 - B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a14}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 8B_2^5 z_1 + 15B_2^4 z_1 - 18B_2^3 z_1 + 15B_2^2 z_1 - 8B_2 z_1 + B_2^5 - B_2^4 + B_2^3 - B_2^2 + B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a15}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{3B_2^4 z_1 - 11B_2^3 z_1 + 16B_2^2 z_1 - 11B_2 z_1 + 2B_2^3 - 3B_2^2 + 2B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a16}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4}{B_2^8 z_1 - 3B_2^7 z_1 + 4B_2^6 z_1 - 4B_2^5 z_1 + 4B_2^4 z_1 - 4B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^6 - B_2^5 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a17}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 7B_2^5 z_1 + 11B_2^4 z_1 - 12B_2^3 z_1 + 11B_2^2 z_1 - 7B_2 z_1 + B_2^5 - B_2^4 + B_2^3 - B_2^2 + B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a18}	$\left((1)_{(\{1\},\{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 15B_2^4 z_1 - 20B_2^3 z_1 + 15B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 9B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\},\{1\})} \right)$
L_{11a19}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\},\{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 13B_2^4 z_1 - 16B_2^3 z_1 + 13B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\},\{1\})} \right)$
L_{11a20}	$\left((1)_{(\{1\},\{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 15B_2^4 z_1 - 20B_2^3 z_1 + 15B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\},\{1\})} \right)$
L_{11a21}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\},\{2\})}, \left(-\frac{B_2^3}{2B_2^6 z_1 - 7B_2^5 z_1 + 12B_2^4 z_1 - 14B_2^3 z_1 + 12B_2^2 z_1 - 7B_2 z_1 - 2B_2^5 + 4B_2^4 - 5B_2^3 + 4B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\},\{1\})} \right)$
L_{11a22}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\},\{2\})}, \left(-\frac{B_2^2}{3B_2^4 z_1 - 10B_2^3 z_1 + 14B_2^2 z_1 - 10B_2 z_1 - 3B_2^3 + 5B_2^2 - 3B_2 + 3z_1} \right)_{(\{2\},\{1\})} \right)$
L_{11a23}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 10B_1 e^{2e^{2b_1} z_2 + 3z_2} - 9B_1 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2 + 4e^{2b_1} z_2 + 4z_2} - 9e^{2e^{2b_1} z_2 + 3z_2} + 10e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + 2B_1 e^{5z_2}} \right) \right)$
L_{11a24}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-7B_1 e^{e^{2b_1} z_2 + 4z_2} + 12B_1 e^{2e^{2b_1} z_2 + 3z_2} - 10B_1 e^{3e^{2b_1} z_2 + 2z_2} + 3B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2 + 3e^{2b_1} z_2 + 4z_2} - 10e^{2e^{2b_1} z_2 + 3z_2} + 12e^{3e^{2b_1} z_2 + 2z_2} - 7e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right) \right)$
L_{11a25}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 6B_1 e^{e^{2b_1} z_2 + 4z_2} - 7B_1 e^{2e^{2b_1} z_2 + 3z_2} + 6B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 3e^{5e^{2b_1} z_2 - 4e^{2b_1} z_2 + 4z_2} + 6e^{2e^{2b_1} z_2 + 3z_2} - 7e^{3e^{2b_1} z_2 + 2z_2} + 6e^{4e^{2b_1} z_2 + z_2} - 3e^{5z_2}} \right) \right)$
L_{11a26}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2 + 10B_1 e^{e^{2b_1} z_2 + 2z_2} - 8B_1 e^{2e^{2b_1} z_2 + z_2} - 5e^{3e^{2b_1} z_2 - 8e^{2b_1} z_2 + 2z_2} + 10e^{2e^{2b_1} z_2 + z_2} - 5B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\},\{2\})}, \left(\frac{B_1 e^{e^{2b_1} z_2 + 4z_2} + 10B_1 e^{2e^{2b_1} z_2 + 3z_2} - 9B_1 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2 + 4e^{2b_1} z_2 + 4z_2} - 9e^{2e^{2b_1} z_2 + 3z_2} + 10e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + 2B_1 e^{5z_2}} \right)_{(\{2\},\{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11a27}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-6B_1e^{e^{2b_1}z_2 + 4z_2} + 11B_1e^{2e^{2b_1}z_2 + 3z_2} - 9B_1e^{3e^{2b_1}z_2 + 2z_2} + 2B_1e^{4e^{2b_1}z_2 + z_2} + e^{5e^{2b_1}z_2 + 2e^{2b_1}z_2 + 4z_2} - 9e^{2e^{2b_1}z_2 + 3z_2} + 11e^{3e^{2b_1}z_2 + 2z_2} - 6e^{4e^{2b_1}z_2 + z_2} + B_1e^{5z_2}} \right) \right)$
L_{11a28}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6z_1 - 7B_2^5z_1 + 19B_2^4z_1 - 26B_2^3z_1 + 19B_2^2z_1 - 7B_2z_1 - B_2^5 + 5B_2^4 - 9B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a29}	$\left(\left(-\frac{B_1}{2B_1^2z_2 - 4B_1z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{5B_2^4z_1 - 18B_2^3z_1 + 26B_2^2z_1 - 18B_2z_1 - 4B_2^3 + 7B_2^2 - 4B_2 + 5z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a30}	$\left(\left(\frac{B_1e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-6B_1e^{e^{2b_1}z_2 + 4z_2} + 13B_1e^{2e^{2b_1}z_2 + 3z_2} - 9B_1e^{3e^{2b_1}z_2 + 2z_2} + 2B_1e^{4e^{2b_1}z_2 + z_2} + e^{5e^{2b_1}z_2 + 2e^{2b_1}z_2 + 4z_2} - 9e^{2e^{2b_1}z_2 + 3z_2} + 13e^{3e^{2b_1}z_2 + 2z_2} - 6e^{4e^{2b_1}z_2 + z_2} + B_1e^{5z_2}} \right) \right)$
L_{11a31}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1e^{5e^{2b_1}z_2 + 5B_1e^{2b_1}z_2 + 4z_2} - 5B_1e^{2e^{2b_1}z_2 + 3z_2} + 5B_1e^{3e^{2b_1}z_2 + 2z_2} - 4B_1e^{4e^{2b_1}z_2 + z_2} - 3e^{5e^{2b_1}z_2} - 4e^{e^{2b_1}z_2 + 4z_2} + 5e^{2e^{2b_1}z_2 + 3z_2} - 5e^{3e^{2b_1}z_2 + 2z_2} + 5e^{4e^{2b_1}z_2 + z_2} - 3e^{5z_2}} \right) \right)$
L_{11a32}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1e^{3e^{2b_1}z_2 + 12B_1e^{2b_1}z_2 + 2z_2} - 9B_1e^{2e^{2b_1}z_2 + z_2} - 6e^{3e^{2b_1}z_2} - 9e^{e^{2b_1}z_2 + 2z_2} + 12e^{2e^{2b_1}z_2 + z_2} - 6B_1e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{2B_2^3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 9B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}}}{2B_2^3e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 9B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a33}	$\left(\left(\frac{B_1e^{\frac{9}{2}e^{2b_1}z_2 + \frac{5z_2}{2}} + e^{\frac{9}{2}e^{2b_1}z_2 + \frac{5z_2}{2}}}{-2B_1e^{e^{2b_1}z_2 + 6z_2} + 3B_1e^{2e^{2b_1}z_2 + 5z_2} - 3B_1e^{3e^{2b_1}z_2 + 4z_2} + 3B_1e^{4e^{2b_1}z_2 + 3z_2} - 3B_1e^{5e^{2b_1}z_2 + 2z_2} + 2B_1e^{6e^{2b_1}z_2 + z_2} + e^{7e^{2b_1}z_2 + 2e^{2b_1}z_2 + 6z_2} - 3e^{2e^{2b_1}z_2 + 5z_2} + 3e^{3e^{2b_1}z_2 + 4z_2} - 3e^{4e^{2b_1}z_2 + 3z_2} + 3e^{5e^{2b_1}z_2 + 2z_2} - 3e^{6e^{2b_1}z_2 + z_2} + B_1e^{7z_2}} \right) \right)$
L_{11a34}	$\left(\left(\frac{B_1e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-5B_1e^{e^{2b_1}z_2 + 4z_2} + 8B_1e^{2e^{2b_1}z_2 + 3z_2} - 8B_1e^{3e^{2b_1}z_2 + 2z_2} + 4B_1e^{4e^{2b_1}z_2 + z_2} + 2e^{5e^{2b_1}z_2 + 4e^{2b_1}z_2 + 4z_2} - 8e^{2e^{2b_1}z_2 + 3z_2} + 8e^{3e^{2b_1}z_2 + 2z_2} - 5e^{4e^{2b_1}z_2 + z_2} + 2B_1e^{5z_2}} \right) \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11a35}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-6B_1e^{e^{2b_1}z_2 + 4z_2} + 9B_1e^{2e^{2b_1}z_2 + 3z_2} - 7B_1e^{3e^{2b_1}z_2 + 2z_2} + 2B_1e^{4e^{2b_1}z_2 + z_2} + e^{5e^{2b_1}z_2 + 2e^{2b_1}z_2 + 4z_2} - 7e^{2e^{2b_1}z_2 + 3z_2} + 9e^{3e^{2b_1}z_2 + 2z_2} - 6e^{4e^{2b_1}z_2 + z_2} + B_1e^{5z_2}} \right) \right)_{(\{1\}, \{2\})}$
L_{11a36}	$\left(\left(\frac{B_1 e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-5B_1e^{e^{2b_1}z_2 + 4z_2} + 7B_1e^{2e^{2b_1}z_2 + 3z_2} - 6B_1e^{3e^{2b_1}z_2 + 2z_2} + 3B_1e^{4e^{2b_1}z_2 + z_2} + 2e^{5e^{2b_1}z_2 + 3e^{2b_1}z_2 + 4z_2} - 6e^{2e^{2b_1}z_2 + 3z_2} + 7e^{3e^{2b_1}z_2 + 2z_2} - 5e^{4e^{2b_1}z_2 + z_2} + 2B_1e^{5z_2}} \right) \right)_{(\{1\}, \{2\})}$
L_{11a37}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} + e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{-6B_1e^{e^{2b_1}z_2 + 2z_2} + 4B_1e^{2e^{2b_1}z_2 + z_2} + 3e^{3e^{2b_1}z_2 + 4e^{2b_1}z_2 + 2z_2} - 6e^{2e^{2b_1}z_2 + z_2} + 3B_1e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2}e^{2b_2}z_1 + B_2e^{\frac{3}{2}e^{2b_2}z_1}}}{4B_2^2e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 6B_2e^{e^{2b_2}z_1 + \frac{z_1}{2}} + 3e^{e^{2b_2}z_1 + \frac{z_1}{2}} + 3B_2^3e^{\frac{3}{2}e^{2b_2}z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{11a38}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6z_1 - 6B_2^5z_1 + 15B_2^4z_1 - 20B_2^3z_1 + 15B_2^2z_1 - 6B_2z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a39}	$\left(\left(-\frac{B_1}{2B_1^2z_2 - 4B_1z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{3B_2^4z_1 - 14B_2^3z_1 + 22B_2^2z_1 - 14B_2z_1 - 2B_2^3 + 5B_2^2 - 2B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a40}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6z_1 - 6B_2^5z_1 + 15B_2^4z_1 - 20B_2^3z_1 + 15B_2^2z_1 - 6B_2z_1 - B_2^5 + 3B_2^4 - 5B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a41}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6z_1 - 7B_2^5z_1 + 19B_2^4z_1 - 26B_2^3z_1 + 19B_2^2z_1 - 7B_2z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a42}	$\left(\left(-\frac{B_1}{2B_1^2z_2 - 4B_1z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6z_1 - 6B_2^5z_1 + 13B_2^4z_1 - 16B_2^3z_1 + 13B_2^2z_1 - 6B_2z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a43}	$\left(\left(-\frac{B_1}{2B_1^2z_2 - 4B_1z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4z_1 - 10B_2^3z_1 + 16B_2^2z_1 - 10B_2z_1 - 2B_2^3 + 5B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a44}	$\left(\left(-\frac{B_1}{2B_1^2z_2 - 4B_1z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6z_1 - 6B_2^5z_1 + 17B_2^4z_1 - 24B_2^3z_1 + 17B_2^2z_1 - 6B_2z_1 - B_2^5 + 5B_2^4 - 9B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a45}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 8B_2^5 z_1 + 16B_2^4 z_1 - 20B_2^3 z_1 + 16B_2^2 z_1 - 8B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a46}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 19B_2^4 z_1 - 26B_2^3 z_1 + 19B_2^2 z_1 - 7B_2 z_1 - 2B_2^4 + 5B_2^3 - 2B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a47}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 7B_2^5 z_1 + 12B_2^4 z_1 - 14B_2^3 z_1 + 12B_2^2 z_1 - 7B_2 z_1 - B_2^4 + 3B_2^3 - B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a48}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 17B_2^4 z_1 - 22B_2^3 z_1 + 17B_2^2 z_1 - 7B_2 z_1 + 2B_2^4 - 5B_2^3 + 2B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a49}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 7B_2^5 z_1 + 19B_2^4 z_1 - 26B_2^3 z_1 + 19B_2^2 z_1 - 7B_2 z_1 - B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a50}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{4B_2^4 z_1 - 14B_2^3 z_1 + 20B_2^2 z_1 - 14B_2 z_1 - 2B_2^3 + 5B_2^2 - 2B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a51}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4}{B_2^8 z_1 - 3B_2^7 z_1 + 5B_2^6 z_1 - 7B_2^5 z_1 + 8B_2^4 z_1 - 7B_2^3 z_1 + 5B_2^2 z_1 - 3B_2 z_1 + B_2^4 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a52}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 6B_2^5 z_1 + 8B_2^4 z_1 - 8B_2^3 z_1 + 8B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a53}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 7B_2^5 z_1 + 12B_2^4 z_1 - 14B_2^3 z_1 + 12B_2^2 z_1 - 7B_2 z_1 + B_2^5 - 3B_2^4 + 5B_2^3 - 3B_2^2 + B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a54}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{4B_2^4 z_1 - 14B_2^3 z_1 + 20B_2^2 z_1 - 14B_2 z_1 + B_2^2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a55}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 16B_2^4 z_1 - 22B_2^3 z_1 + 16B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 9B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a56}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{2B_2^6 z_1 - 6B_2^5 z_1 + 9B_2^4 z_1 - 10B_2^3 z_1 + 9B_2^2 z_1 - 6B_2 z_1 - 2B_2^5 + 4B_2^4 - 5B_2^3 + 4B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a57}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 14B_2^4 z_1 - 18B_2^3 z_1 + 14B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 9B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a58}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 6B_1 e^{2b_1} z_2 + 4z_2} - 11B_1 e^{2e^{2b_1} z_2 + 3z_2} + 9B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 9e^{2e^{2b_1} z_2 + 3z_2} - 11e^{3e^{2b_1} z_2 + 2z_2} + 6e^{4e^{2b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 6B_1 e^{2b_1} z_2 + 4z_2} - 7B_1 e^{2e^{2b_1} z_2 + 3z_2} + 7B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 7e^{2e^{2b_1} z_2 + 3z_2} - 7e^{3e^{2b_1} z_2 + 2z_2} + 6e^{4e^{2b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a59}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2 + 11B_1 e^{2b_1} z_2 + 2z_2} - 8B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{3e^{2b_1} z_2} - 8e^{e^{2b_1} z_2 + 2z_2} + 11e^{2e^{2b_1} z_2 + z_2} - 4B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 8B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11a60}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 9B_1 e^{2e^{2b_1} z_2 + 3z_2} - 8B_1 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2} + 4e^{e^{2b_1} z_2 + 4z_2} - 8e^{2e^{2b_1} z_2 + 3z_2} + 9e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + 2B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 12B_1 e^{2e^{2b_1} z_2 + 3z_2} - 10B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 10e^{2e^{2b_1} z_2 + 3z_2} + 12e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a61}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 9B_1 e^{2e^{2b_1} z_2 + 3z_2} - 8B_1 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2} + 4e^{e^{2b_1} z_2 + 4z_2} - 8e^{2e^{2b_1} z_2 + 3z_2} + 9e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + 2B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 12B_1 e^{2e^{2b_1} z_2 + 3z_2} - 10B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 10e^{2e^{2b_1} z_2 + 3z_2} + 12e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a62}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 9B_1 e^{2e^{2b_1} z_2 + 3z_2} - 8B_1 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2} + 4e^{e^{2b_1} z_2 + 4z_2} - 8e^{2e^{2b_1} z_2 + 3z_2} + 9e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + 2B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 12B_1 e^{2e^{2b_1} z_2 + 3z_2} - 10B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 10e^{2e^{2b_1} z_2 + 3z_2} + 12e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a63}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 14B_2^4 z_1 - 18B_2^3 z_1 + 14B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a64}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{2B_2^6 z_1 - 6B_2^5 z_1 + 9B_2^4 z_1 - 10B_2^3 z_1 + 9B_2^2 z_1 - 6B_2 z_1 - 2B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a65}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{4B_2^4 z_1 - 13B_2^3 z_1 + 18B_2^2 z_1 - 13B_2 z_1 - 4B_2^3 + 7B_2^2 - 4B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a66}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 12B_2^4 z_1 - 14B_2^3 z_1 + 12B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a67}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 9B_1 e^{2b_1} z_2 + 4z_2} - 16B_1 e^{2e^{2b_1} z_2 + 3z_2} + 12B_1 e^{3e^{2b_1} z_2 + 2z_2} - 5B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 5e^{2b_1 z_2 + 4z_2} + 12e^{2e^{2b_1} z_2 + 3z_2} - 16e^{3e^{2b_1} z_2 + 2z_2} + 9e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{4B_2^4 z_1 - 13B_2^3 z_1 + 18B_2^2 z_1 - 13B_2 z_1 - 3B_2^3 + 5B_2^2 - 3B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a68}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{4B_2^4 z_1 - 13B_2^3 z_1 + 18B_2^2 z_1 - 13B_2 z_1 - 3B_2^3 + 5B_2^2 - 3B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a69}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 16B_2^4 z_1 - 22B_2^3 z_1 + 16B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a70}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 7B_1 e^{2b_1} z_2 + 4z_2} - 10B_1 e^{2e^{2b_1} z_2 + 3z_2} + 10B_1 e^{3e^{2b_1} z_2 + 2z_2} - 5B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 5e^{2b_1 z_2 + 4z_2} + 10e^{2e^{2b_1} z_2 + 3z_2} - 10e^{3e^{2b_1} z_2 + 2z_2} + 7e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 16B_2^4 z_1 - 22B_2^3 z_1 + 16B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a71}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 6B_1 e^{2b_1} z_2 + 4z_2} - 8B_1 e^{2e^{2b_1} z_2 + 3z_2} + 7B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 3e^{5e^{2b_1} z_2} - 4e^{2b_1 z_2 + 4z_2} + 7e^{2e^{2b_1} z_2 + 3z_2} - 8e^{3e^{2b_1} z_2 + 2z_2} + 6e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 16B_2^4 z_1 - 22B_2^3 z_1 + 16B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a72}	$\left(\left(\frac{B_1 e^{\frac{9}{2} e^{2b_1} z_2 + \frac{5z_2}{2}} + e^{\frac{9}{2} e^{2b_1} z_2 + \frac{5z_2}{2}}}{-2B_1 e^{e^{2b_1} z_2 + 6z_2} + 3B_1 e^{2e^{2b_1} z_2 + 5z_2} - 4B_1 e^{3e^{2b_1} z_2 + 4z_2} + 4B_1 e^{4e^{2b_1} z_2 + 3z_2} - 3B_1 e^{5e^{2b_1} z_2 + 2z_2} + 2B_1 e^{6e^{2b_1} z_2 + z_2} + e^{7e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 6z_2} - 3e^{2e^{2b_1} z_2 + 5z_2} + 4e^{3e^{2b_1} z_2 + 4z_2} - 2e^{4e^{2b_1} z_2 + 3z_2} + e^{5e^{2b_1} z_2 + 2z_2} - e^{6e^{2b_1} z_2 + z_2} - e^{7e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 16B_2^4 z_1 - 22B_2^3 z_1 + 16B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a73}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-5B_1 e^{e^{2b_1} z_2 + 4z_2} + 7B_1 e^{2e^{2b_1} z_2 + 3z_2} - 7B_1 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2} + 4e^{e^{2b_1} z_2 + 4z_2} - 7e^{2e^{2b_1} z_2 + 3z_2} + 7e^{3e^{2b_1} z_2 + 2z_2} - 5e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 16B_2^4 z_1 - 22B_2^3 z_1 + 16B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 5B_2^4 - 7B_2^3 + 5B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a74}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 12B_1 e^{2e^{2b_1} z_2 + 3z_2} - 8B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 8e^{2e^{2b_1} z_2 + 3z_2} + 12e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right) \right)$
L_{11a75}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-4B_1 e^{e^{2b_1} z_2 + 4z_2} + 4B_1 e^{2e^{2b_1} z_2 + 3z_2} - 4B_1 e^{3e^{2b_1} z_2 + 2z_2} + 3B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2} + 3e^{e^{2b_1} z_2 + 4z_2} - 4e^{2e^{2b_1} z_2 + 3z_2} + 4e^{3e^{2b_1} z_2 + 2z_2} - 4e^{4e^{2b_1} z_2 + z_2} + 2B_1 e^{5z_2}} \right) \right)$
L_{11a76}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-9B_1 e^{e^{2b_1} z_2 + 2z_2} + 6B_1 e^{2e^{2b_1} z_2 + z_2} + 4e^{3e^{2b_1} z_2} + 6e^{e^{2b_1} z_2 + 2z_2} - 9e^{2e^{2b_1} z_2 + z_2} + 4B_1 e^{3z_2}} \right) \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 9B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 4e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 4B_2^3 e^{\frac{3}{2} e^{2b_2} z_1}} \right)$
L_{11a77}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 14B_2^4 z_1 - 18B_2^3 z_1 + 14B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a78}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 16B_2^4 z_1 - 22B_2^3 z_1 + 16B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 3B_2^4 - 5B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a79}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{3B_1 e^{3e^{2b_1} z_2} + 14B_1 e^{e^{2b_1} z_2 + 2z_2} - 11B_1 e^{2e^{2b_1} z_2 + z_2} - 7e^{3e^{2b_1} z_2} - 11e^{e^{2b_1} z_2 + 2z_2} + 14e^{2e^{2b_1} z_2 + z_2} - 7B_1 e^{3z_2} + 3e^{3z_2}} \right) \right)_{(\{1\}, \{2\})}, \left(\frac{3B_2^3 e^{e^{2b_2} z_1} + \frac{z_1}{2} - 11B_2^2 e^{e^{2b_2} z_1}}{3B_2^3 e^{e^{2b_2} z_1} + \frac{z_1}{2} - 11B_2^2 e^{e^{2b_2} z_1}} \right)$
L_{11a80}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} + 8B_1 e^{e^{2b_1} z_2 + 4z_2} - 11B_1 e^{2e^{2b_1} z_2 + 3z_2} + 9B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 9e^{2e^{2b_1} z_2 + 3z_2} - 11e^{3e^{2b_1} z_2 + 2z_2} + 8e^{4e^{2b_1} z_2 + z_2}} \right) \right)$
L_{11a81}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-7B_1 e^{e^{2b_1} z_2 + 4z_2} + 12B_1 e^{2e^{2b_1} z_2 + 3z_2} - 11B_1 e^{3e^{2b_1} z_2 + 2z_2} + 5B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2} + 5e^{e^{2b_1} z_2 + 4z_2} - 11e^{2e^{2b_1} z_2 + 3z_2} + 12e^{3e^{2b_1} z_2 + 2z_2} - 7e^{4e^{2b_1} z_2 + z_2} + 2B_1 e^{5z_2}} \right) \right)$
L_{11a82}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 14B_1 e^{2e^{2b_1} z_2 + 3z_2} - 10B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 10e^{2e^{2b_1} z_2 + 3z_2} + 14e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a83}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{4B_2^4 z_1 - 13B_2^3 z_1 + 18B_2^2 z_1 - 13B_2 z_1 - 2B_2^3 + 3B_2^2 - 2B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a84}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{3B_1 e^{3e^{2b_1} z_2} + 10B_1 e^{e^{2b_1} z_2 + 2z_2} - 9B_1 e^{2e^{2b_1} z_2 + z_2} - 5e^{3e^{2b_1} z_2} - 9e^{e^{2b_1} z_2 + 2z_2} + 10e^{2e^{2b_1} z_2 + z_2} - 5B_1 e^{3z_2} + 3e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{3B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a85}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{B_1 e^{5e^{2b_1} z_2} + 4B_1 e^{e^{2b_1} z_2 + 4z_2} - 5B_1 e^{2e^{2b_1} z_2 + 3z_2} + 5B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 5e^{2e^{2b_1} z_2 + 3z_2} - 5e^{3e^{2b_1} z_2 + 2z_2} + 4e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + 9B_1 e^{e^{2b_1} z_2 + 2z_2} - 8B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{3e^{2b_1} z_2} - 8e^{e^{2b_1} z_2 + 2z_2} + 9e^{2e^{2b_1} z_2 + z_2} - 4B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a86}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + 9B_1 e^{e^{2b_1} z_2 + 2z_2} - 8B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{3e^{2b_1} z_2} - 8e^{e^{2b_1} z_2 + 2z_2} + 9e^{2e^{2b_1} z_2 + z_2} - 4B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{B_1 e^{5e^{2b_1} z_2} + 7B_1 e^{e^{2b_1} z_2 + 4z_2} - 12B_1 e^{2e^{2b_1} z_2 + 3z_2} + 10B_1 e^{3e^{2b_1} z_2 + 2z_2} - 5B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 5e^{e^{2b_1} z_2 + 4z_2} + 10e^{2e^{2b_1} z_2 + 3z_2} - 12e^{3e^{2b_1} z_2 + 2z_2} + 7e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a87}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + 9B_1 e^{e^{2b_1} z_2 + 2z_2} - 7B_1 e^{2e^{2b_1} z_2 + z_2} - 5e^{3e^{2b_1} z_2} - 7e^{e^{2b_1} z_2 + 2z_2} + 9e^{2e^{2b_1} z_2 + z_2} - 5B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 10B_1 e^{2e^{2b_1} z_2 + 3z_2} - 8B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 8e^{2e^{2b_1} z_2 + 3z_2} + 10e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a88}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + 9B_1 e^{e^{2b_1} z_2 + 2z_2} - 7B_1 e^{2e^{2b_1} z_2 + z_2} - 5e^{3e^{2b_1} z_2} - 7e^{e^{2b_1} z_2 + 2z_2} + 9e^{2e^{2b_1} z_2 + z_2} - 5B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 10B_1 e^{2e^{2b_1} z_2 + 3z_2} - 8B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 8e^{2e^{2b_1} z_2 + 3z_2} + 10e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a89}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + 9B_1 e^{e^{2b_1} z_2 + 2z_2} - 7B_1 e^{2e^{2b_1} z_2 + z_2} - 5e^{3e^{2b_1} z_2} - 7e^{e^{2b_1} z_2 + 2z_2} + 9e^{2e^{2b_1} z_2 + z_2} - 5B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 10B_1 e^{2e^{2b_1} z_2 + 3z_2} - 8B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 4z_2} - 8e^{2e^{2b_1} z_2 + 3z_2} + 10e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a90}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 12B_2^4 z_1 - 14B_2^3 z_1 + 12B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a91}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 16B_2^4 z_1 - 22B_2^3 z_1 + 16B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 4B_2^4 - 5B_2^3 + 4B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a92}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 11B_1 e^{2e^{2b_1} z_2 + 3z_2} - 10B_1 e^{3e^{2b_1} z_2 + 2z_2} + 3B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2 + 3e^{2b_1} z_2 + 4z_2} - 10e^{2e^{2b_1} z_2 + 3z_2} + 11e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 12B_2^4 z_1 - 14B_2^3 z_1 + 12B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 4B_2^4 - 5B_2^3 + 4B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a93}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 12B_2^4 z_1 - 14B_2^3 z_1 + 12B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 4B_2^4 - 5B_2^3 + 4B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a94}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 11B_2^3 z_1 + 18B_2^2 z_1 - 11B_2 z_1 - B_2^3 + 3B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a95}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 14B_2^4 z_1 - 18B_2^3 z_1 + 14B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 2B_2^4 - 3B_2^3 + 2B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a96}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 11B_2^3 z_1 + 18B_2^2 z_1 - 11B_2 z_1 - 2B_2^3 + 5B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a97}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 13B_1 e^{2e^{2b_1} z_2 + 3z_2} - 13B_1 e^{3e^{2b_1} z_2 + 2z_2} + 6B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2 + 6e^{2b_1} z_2 + 4z_2} - 13e^{2e^{2b_1} z_2 + 3z_2} + 13e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 14B_2^4 z_1 - 18B_2^3 z_1 + 14B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 2B_2^4 - 3B_2^3 + 2B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a98}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{2B_1 e^{5e^{2b_1} z_2 + 7B_1 e^{2b_1} z_2 + 4z_2} - 9B_1 e^{2e^{2b_1} z_2 + 3z_2} + 8B_1 e^{3e^{2b_1} z_2 + 2z_2} - 5B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 5e^{e^{2b_1} z_2 + 4z_2} + 8e^{2e^{2b_1} z_2 + 3z_2} - 9e^{3e^{2b_1} z_2 + 2z_2} + 7e^{4e^{2b_1} z_2 + z_2} - B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 6B_2^5 z_1 + 14B_2^4 z_1 - 18B_2^3 z_1 + 14B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 2B_2^4 - 3B_2^3 + 2B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a99}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{4B_1 e^{3e^{2b_1} z_2 + 10B_1 e^{2b_1} z_2 + 2z_2} - 10B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{3e^{2b_1} z_2} - 10e^{e^{2b_1} z_2 + 2z_2} + 10e^{2e^{2b_1} z_2 + z_2} - 3B_1 e^{3z_2} + 4e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{4B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 10B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 10B_2 e^{2e^{2b_2} z_1} - 10B_2 e^{e^{2b_2} z_1} + B_2 e^{3z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{11a100}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4}{B_2^8 z_1 - 3B_2^7 z_1 + 5B_2^6 z_1 - 6B_2^5 z_1 + 6B_2^4 z_1 - 6B_2^3 z_1 + 5B_2^2 z_1 - 3B_2 z_1 + B_2^5 - B_2^4 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a101}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 7B_2^5 z_1 + 13B_2^4 z_1 - 16B_2^3 z_1 + 13B_2^2 z_1 - 7B_2 z_1 + B_2^3 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a102}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{2B_2^6 z_1 - 7B_2^5 z_1 + 13B_2^4 z_1 - 16B_2^3 z_1 + 13B_2^2 z_1 - 7B_2 z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a103}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{3B_2^4 z_1 - 9B_2^3 z_1 + 12B_2^2 z_1 - 9B_2 z_1 - 2B_2^3 + 5B_2^2 - 2B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a104}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right)}{B_1 e^{5e^{2b_1} z_2 + 4B_1 e^{2b_1} z_2 + 4z_2} - 12B_1 e^{2e^{2b_1} z_2 + 3z_2} + 12B_1 e^{3e^{2b_1} z_2 + 2z_2} - 6B_1 e^{4e^{2b_1} z_2 + z_2} - 6e^{e^{2b_1} z_2 + 4z_2} + 12e^{2e^{2b_1} z_2 + 3z_2} - 12e^{3e^{2b_1} z_2 + 2z_2} + 4e^{4e^{2b_1} z_2 + z_2} + e^{5z_2}} \right)} \right)$
L_{11a105}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 6B_1 e^{2b_1} z_2 + 4z_2} - 6B_1 e^{2e^{2b_1} z_2 + 3z_2} + 6B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 6e^{2e^{2b_1} z_2 + 3z_2} - 6e^{3e^{2b_1} z_2 + 2z_2} + 6e^{4e^{2b_1} z_2 + z_2} - 2e^{5z_2}} \right)} \right)$
L_{11a106}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 6B_1 e^{2b_1} z_2 + 4z_2} - 8B_1 e^{2e^{2b_1} z_2 + 3z_2} + 8B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 8e^{2e^{2b_1} z_2 + 3z_2} - 8e^{3e^{2b_1} z_2 + 2z_2} + 6e^{4e^{2b_1} z_2 + z_2} - 2e^{5z_2}} \right)} \right)$
L_{11a107}	$\left(\left(\frac{B_1 e^{\frac{9}{2} e^{2b_1} z_2 + \frac{5z_2}{2}} + e^{\frac{9}{2} e^{2b_1} z_2 + \frac{5z_2}{2}}}{-2B_1 e^{e^{2b_1} z_2 + 6z_2} + 2B_1 e^{2e^{2b_1} z_2 + 5z_2} - 2B_1 e^{3e^{2b_1} z_2 + 4z_2} + 2B_1 e^{4e^{2b_1} z_2 + 3z_2} - 2B_1 e^{5e^{2b_1} z_2 + 2z_2} + 2B_1 e^{6e^{2b_1} z_2 + z_2} + e^{7e^{2b_1} z_2 + 2e^{2b_1} z_2 + 6z_2} - 2e^{2e^{2b_1} z_2 + 5z_2} + 2e^{3e^{2b_1} z_2 + 4z_2} - 2e^{4e^{2b_1} z_2 + 3z_2} + 2e^{5e^{2b_1} z_2 + 2z_2} - 2e^{6e^{2b_1} z_2 + z_2} + 2e^{7z_2}} \right)} \right)$
L_{11a108}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-5B_1 e^{e^{2b_1} z_2 + 4z_2} + 6B_1 e^{2e^{2b_1} z_2 + 3z_2} - 6B_1 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2} + 4e^{e^{2b_1} z_2 + 4z_2} - 6e^{2e^{2b_1} z_2 + 3z_2} + 6e^{3e^{2b_1} z_2 + 2z_2} - 5e^{4e^{2b_1} z_2 + z_2} + 2e^{5z_2}} \right)} \right)$
L_{11a109}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1} z_2 + 4z_2} + 8B_1 e^{2e^{2b_1} z_2 + 3z_2} - 7B_1 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2 + z_2} + 2e^{5e^{2b_1} z_2} + 4e^{e^{2b_1} z_2 + 4z_2} - 7e^{2e^{2b_1} z_2 + 3z_2} + 8e^{3e^{2b_1} z_2 + 2z_2} - 6e^{4e^{2b_1} z_2 + z_2} + 2e^{5z_2}} \right)} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a110}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^4}{B_2^8 z_1 - 2B_2^7 z_1 + 2B_2^6 z_1 - 2B_2^5 z_1 + 2B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 - B_2^7 + B_2^6 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{1\}, \{2\})} \right)$
L_{11a111}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{2B_2^6 z_1 - 5B_2^5 z_1 + 6B_2^4 z_1 - 6B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 - 2B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a112}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{2B_2^6 z_1 - 6B_2^5 z_1 + 10B_2^4 z_1 - 12B_2^3 z_1 + 10B_2^2 z_1 - 6B_2 z_1 - 2B_2^5 + 4B_2^4 - 5B_2^3 + 4B_2^2 - 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a113}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 6B_1 e^{2b_1} z_2 + 4z_2} - 10B_1 e^{2e^{2b_1} z_2 + 3z_2} + 8B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 8e^{2e^{2b_1} z_2 + 3z_2} - 10e^{3e^{2b_1} z_2 + 2z_2} + 6e^{4e^{2b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{4B_2^4 z_1 - 12B_2^3 z_1 + 16B_2^2 z_1 - 12B_2 z_1 - 4B_2^3 + 7B_2^2 - 4B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a114}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{4B_2^4 z_1 - 12B_2^3 z_1 + 16B_2^2 z_1 - 12B_2 z_1 - 4B_2^3 + 7B_2^2 - 4B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a115}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2 + 10B_1 e^{2b_1} z_2 + 2z_2} - 7B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{3e^{2b_1} z_2} - 7e^{e^{2b_1} z_2 + 2z_2} + 10e^{2e^{2b_1} z_2 + z_2} - 4B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 7B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 7B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a116}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-8B_1 e^{e^{2b_1} z_2 + 2z_2} + 6B_1 e^{2e^{2b_1} z_2 + z_2} + 3e^{3e^{2b_1} z_2} + 6e^{e^{2b_1} z_2 + 2z_2} - 8e^{2e^{2b_1} z_2 + z_2} + 3B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1 + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}}{6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 8B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 3e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 3B_2^3 e^{\frac{3}{2} e^{2b_2} z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a117}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{3B_2^4 z_1 - 8B_2^3 z_1 + 10B_2^2 z_1 - 8B_2 z_1 - 3B_2^3 + 5B_2^2 - 3B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a118}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-7B_1 e^{e^{2b_1} z_2 + 4z_2} + 14B_1 e^{2e^{2b_1} z_2 + 3z_2} - 12B_1 e^{3e^{2b_1} z_2 + 2z_2} + 3B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 3e^{e^{2b_1} z_2 + 4z_2} - 12e^{2e^{2b_1} z_2 + 3z_2} + 14e^{3e^{2b_1} z_2 + 2z_2} - 7e^{4e^{2b_1} z_2 + z_2}} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{3B_2^4 z_1 - 8B_2^3 z_1 + 10B_2^2 z_1 - 8B_2 z_1 - 3B_2^3 + 5B_2^2 - 3B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a119}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2 + 12B_1 e^{e^{2b_1} z_2 + 2z_2}} - 9B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{3e^{2b_1} z_2} - 9e^{e^{2b_1} z_2 + 2z_2} + 12e^{2e^{2b_1} z_2 + z_2} - 4B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a120}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{-10B_1 e^{e^{2b_1} z_2 + 2z_2} + 7B_1 e^{2e^{2b_1} z_2 + z_2} + 4e^{3e^{2b_1} z_2} + 7e^{e^{2b_1} z_2 + 2z_2} - 10e^{2e^{2b_1} z_2 + z_2} + 4B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1 + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}}{7B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 10B_2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 4e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} + 4B_2} \right)_{(\{1\}, \{2\})} \right)$
L_{11a121}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 7B_1 e^{e^{2b_1} z_2 + 4z_2}} - 8B_1 e^{2e^{2b_1} z_2 + 3z_2} + 7B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 7e^{2e^{2b_1} z_2 + 3z_2} - 8e^{3e^{2b_1} z_2 + 2z_2} + 7e^{4e^{2b_1} z_2 + z_2} - 2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a122}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2 + 10B_1 e^{e^{2b_1} z_2 + 2z_2}} - 8B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{3e^{2b_1} z_2} - 8e^{e^{2b_1} z_2 + 2z_2} + 10e^{2e^{2b_1} z_2 + z_2} - 3B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 8B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 8B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a123}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 4B_1 e^{e^{2b_1} z_2 + 4z_2}} - 4B_1 e^{2e^{2b_1} z_2 + 3z_2} + 4B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 4e^{2e^{2b_1} z_2 + 3z_2} - 4e^{3e^{2b_1} z_2 + 2z_2} + 4e^{4e^{2b_1} z_2 + z_2} - 2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a124}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1 e^{3e^{2b_1} z_2 + 10B_1 e^{e^{2b_1} z_2 + 2z_2}} - 9B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{3e^{2b_1} z_2} - 9e^{e^{2b_1} z_2 + 2z_2} + 10e^{2e^{2b_1} z_2 + z_2} - 4B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11a125}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{2B_2^6 z_1 - 5B_2^5 z_1 + 6B_2^4 z_1 - 6B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a126}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{4B_2^4 z_1 - 12B_2^3 z_1 + 16B_2^2 z_1 - 12B_2 z_1 - 2B_2^3 + 3B_2^2 - 2B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a127}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{-7B_1 e^{e^{2b_1} z_2 + 4z_2} + 14B_1 e^{2e^{2b_1} z_2 + 3z_2} - 10B_1 e^{3e^{2b_1} z_2 + 2z_2} + 3B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 3e^{e^{2b_1} z_2 + 4z_2} - 10e^{2e^{2b_1} z_2 + 3z_2} + 14e^{3e^{2b_1} z_2 + 2z_2} - 7e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}} - 9B_2^2 e^{e^{2b_2} z_1 + \frac{z_1^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11a128}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1}z_2 + 5B_1 e^{2b_1}z_2 + 4z_2} - 8B_1 e^{2e^{2b_1}z_2 + 3z_2} + 7B_1 e^{3e^{2b_1}z_2 + 2z_2} - 4B_1 e^{4e^{2b_1}z_2 + z_2} - 2e^{5e^{2b_1}z_2} - 4e^{e^{2b_1}z_2 + 4z_2} + 7e^{2e^{2b_1}z_2 + 3z_2} - 8e^{3e^{2b_1}z_2 + 2z_2} + 5e^{4e^{2b_1}z_2 + z_2} - 2e^{5e^{2b_1}z_2}} \right) \right)$
L_{11a129}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1}z_2 + 6B_1 e^{2b_1}z_2 + 2z_2} - 6B_1 e^{2e^{2b_1}z_2 + z_2} - 3e^{3e^{2b_1}z_2} - 6e^{e^{2b_1}z_2 + 2z_2} + 6e^{2e^{2b_1}z_2 + z_2} - 3B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^3}{2B_2^3 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 6B_2^2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} + 3B_2 e^{e^{2b_2}z_1} - 3e^{e^{2b_2}z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{11a130}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{2B_2^6 z_1 - 6B_2^5 z_1 + 10B_2^4 z_1 - 12B_2^3 z_1 + 10B_2^2 z_1 - 6B_2 z_1 - B_2^5 + 2B_2^4 - 3B_2^3 + 2B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a131}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{3B_2^4 z_1 - 8B_2^3 z_1 + 10B_2^2 z_1 - 8B_2 z_1 - B_2^3 + B_2^2 - B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a132}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{4B_2^2 z_1 - 8B_2 z_1 - B_2 + 4z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a133}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1}z_2 + 4z_2} + 14B_1 e^{2e^{2b_1}z_2 + 3z_2} - 14B_1 e^{3e^{2b_1}z_2 + 2z_2} + 4B_1 e^{4e^{2b_1}z_2 + z_2} + e^{5e^{2b_1}z_2} + 4e^{e^{2b_1}z_2 + 4z_2} - 14e^{2e^{2b_1}z_2 + 3z_2} + 14e^{3e^{2b_1}z_2 + 2z_2} - 6e^{4e^{2b_1}z_2 + z_2} + B_1 e^{5z_2}} \right) \right)$
L_{11a134}	$\left(\left(\frac{B_1 e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-6B_1 e^{e^{2b_1}z_2 + 4z_2} + 12B_1 e^{2e^{2b_1}z_2 + 3z_2} - 10B_1 e^{3e^{2b_1}z_2 + 2z_2} + 4B_1 e^{4e^{2b_1}z_2 + z_2} + e^{5e^{2b_1}z_2} + 4e^{e^{2b_1}z_2 + 4z_2} - 10e^{2e^{2b_1}z_2 + 3z_2} + 12e^{3e^{2b_1}z_2 + 2z_2} - 6e^{4e^{2b_1}z_2 + z_2} + B_1 e^{5z_2}} \right) \right)$
L_{11a135}	$\left(\left(\frac{B_1 e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{2B_1 e^{5e^{2b_1}z_2} + 6B_1 e^{2e^{2b_1}z_2 + 4z_2} - 9B_1 e^{2e^{2b_1}z_2 + 3z_2} + 10B_1 e^{3e^{2b_1}z_2 + 2z_2} - 6B_1 e^{4e^{2b_1}z_2 + z_2} - 2e^{5e^{2b_1}z_2} - 6e^{e^{2b_1}z_2 + 4z_2} + 10e^{2e^{2b_1}z_2 + 3z_2} - 9e^{3e^{2b_1}z_2 + 2z_2} + 6e^{4e^{2b_1}z_2 + z_2} - 2e^{5e^{2b_1}z_2}} \right) \right)$
L_{11a136}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} + e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{3B_1 e^{3e^{2b_1}z_2} + 10B_1 e^{e^{2b_1}z_2 + 2z_2} - 8B_1 e^{2e^{2b_1}z_2 + z_2} - 4e^{3e^{2b_1}z_2} - 8e^{e^{2b_1}z_2 + 2z_2} + 10e^{2e^{2b_1}z_2 + z_2} - 4B_1 e^{3z_2} + 3e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^3}{3B_2^3 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 8B_2^2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} + 3B_2 e^{e^{2b_2}z_1} - 3e^{e^{2b_2}z_1}} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

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Table B.1 – continued from previous page

Column 1	Column 2
L_{11a146}	$\left(\left(-\frac{B_1 e^{\frac{7}{2}e^{b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{6e^{b_1}z_2} - B_1^2 e^{e^{b_1}z_2 + 5z_2} + 2B_1^2 e^{2e^{b_1}z_2 + 4z_2} - 2B_1^2 e^{3e^{b_1}z_2 + 3z_2} + 2B_1^2 e^{4e^{b_1}z_2 + 2z_2} - 2B_1^2 e^{5e^{b_1}z_2 + z_2} - B_1^2 e^{6e^{b_1}z_2} + 3B_1 e^{e^{b_1}z_2 + 5z_2} - 5B_1 e^{2e^{b_1}z_2 + 4z_2} + 5B_1 e^{3e^{b_1}z_2 + 3z_2}} \right) \right)$
L_{11a147}	$\left(\left(-\frac{B_1 e^{\frac{7}{2}e^{b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{6e^{b_1}z_2} - B_1^2 e^{e^{b_1}z_2 + 5z_2} + 2B_1^2 e^{2e^{b_1}z_2 + 4z_2} - 2B_1^2 e^{3e^{b_1}z_2 + 3z_2} + 2B_1^2 e^{4e^{b_1}z_2 + 2z_2} - 2B_1^2 e^{5e^{b_1}z_2 + z_2} - B_1^2 e^{6e^{b_1}z_2} + 3B_1 e^{e^{b_1}z_2 + 5z_2} - 3B_1 e^{2e^{b_1}z_2 + 4z_2} + 3B_1 e^{3e^{b_1}z_2 + 3z_2}} \right) \right)$
L_{11a148}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1^2 e^{4e^{b_1}z_2} + 6B_1 e^{e^{b_1}z_2 + 3z_2} - 9B_1 e^{2e^{b_1}z_2 + 2z_2} + 6B_1 e^{3e^{b_1}z_2 + z_2} - 5e^{b_1}z_2 + 3z_2 + 5e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
L_{11a149}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1^2 e^{4e^{b_1}z_2} + 8B_1 e^{e^{b_1}z_2 + 3z_2} - 11B_1 e^{2e^{b_1}z_2 + 2z_2} + 8B_1 e^{3e^{b_1}z_2 + z_2} - 5e^{b_1}z_2 + 3z_2 + 5e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
L_{11a150}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2} - 5B_1^2 e^{e^{b_1}z_2 + 3z_2} + 9B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 7B_1^2 e^{3e^{b_1}z_2 + z_2} - 3B_1^2 e^{4e^{b_1}z_2} + 12B_1 e^{e^{b_1}z_2 + 3z_2} - 19B_1 e^{2e^{b_1}z_2 + 2z_2} + 12B_1 e^{3e^{b_1}z_2 + z_2} + e^{4e^{b_1}z_2} - 7e^{e^{b_1}z_2 + 3z_2}} \right) \right)$
L_{11a151}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{4B_1^2 e^{e^{b_1}z_2 + 3z_2} - 4B_1^2 e^{2e^{b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{b_1}z_2 + z_2} + 2B_1^2 e^{4e^{b_1}z_2} - 8B_1 e^{e^{b_1}z_2 + 3z_2} + 11B_1 e^{2e^{b_1}z_2 + 2z_2} - 8B_1 e^{3e^{b_1}z_2 + z_2} - 2e^{4e^{b_1}z_2} + 2e^{e^{b_1}z_2 + 3z_2} - 4e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
L_{11a152}	$\left(\left(-\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{4B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 5B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 3B_1^2 e^{3e^{3b_1}z_2 + z_2} + 3B_1 e^{4e^{3b_1}z_2} - 8B_1 e^{e^{3b_1}z_2 + 3z_2} + 11B_1 e^{2e^{3b_1}z_2 + 2z_2} - 8B_1 e^{3e^{3b_1}z_2 + z_2} - e^{4e^{3b_1}z_2} + 3e^{e^{3b_1}z_2 + 3z_2} - 5e^{2e^{3b_1}z_2 + 2z_2}} \right) \right)$
L_{11a153}	$\left(\left(-\frac{B_1^2 e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{e^{3b_1}z_2 + 5z_2} - 3B_1^2 e^{2e^{3b_1}z_2 + 4z_2} + 3B_1^2 e^{3e^{3b_1}z_2 + 3z_2} - 2B_1^2 e^{4e^{3b_1}z_2 + 2z_2} + B_1^2 e^{5e^{3b_1}z_2 + z_2} + B_1 e^{6e^{3b_1}z_2} - 3B_1 e^{e^{3b_1}z_2 + 5z_2} + 6B_1 e^{2e^{3b_1}z_2 + 4z_2} - 7B_1 e^{3e^{3b_1}z_2 + 3z_2}} \right) \right)$
L_{11a154}	$\left(\left(-\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{3B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 4B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{3b_1}z_2 + z_2} + 2B_1 e^{4e^{3b_1}z_2} - 6B_1 e^{e^{3b_1}z_2 + 3z_2} + 9B_1 e^{2e^{3b_1}z_2 + 2z_2} - 6B_1 e^{3e^{3b_1}z_2 + z_2} + 2e^{e^{3b_1}z_2 + 3z_2} - 4e^{2e^{3b_1}z_2 + 2z_2} + 3e^{e^{3b_1}z_2 + 3z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a155}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{5B_1^2 e^{e^{b_1} z_2 + 3z_2} - 5B_1^2 e^{2e^{b_1} z_2 + 2z_2} + B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{4e^{b_1} z_2} - 7B_1 e^{e^{b_1} z_2 + 3z_2} + 13B_1 e^{2e^{b_1} z_2 + 2z_2} - 7B_1 e^{3e^{b_1} z_2 + z_2} - 4e^{e^{b_1} z_2} + e^{e^{b_1} z_2 + 3z_2} - 5e^{2e^{b_1} z_2 + 2z_2} + 5e^{3e^{b_1} z_2 + z_2}} \right) \right.$	
L_{11a156}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^2 (-e^{4e^{-b_1} z_2}) + 2B_1^2 e^{e^{-b_1} z_2 + 3z_2} - 6B_1^2 e^{2e^{-b_1} z_2 + 2z_2} + 5B_1^2 e^{3e^{-b_1} z_2 + z_2} + B_1 e^{4e^{-b_1} z_2} - 6B_1 e^{e^{-b_1} z_2 + 3z_2} + 9B_1 e^{2e^{-b_1} z_2 + 2z_2} - 6B_1 e^{3e^{-b_1} z_2 + z_2} + 5e^{e^{-b_1} z_2 + 3z_2}} \right) \right.$	
L_{11a157}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{-5B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 6B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{-b_1} z_2 + z_2} - B_1 e^{4e^{-b_1} z_2} + 8B_1 e^{e^{-b_1} z_2 + 3z_2} - 15B_1 e^{2e^{-b_1} z_2 + 2z_2} + 8B_1 e^{3e^{-b_1} z_2 + z_2} + e^{4e^{-b_1} z_2} - 2e^{e^{-b_1} z_2 + 3z_2} + 6e^{2e^{-b_1} z_2 + 2z_2}} \right) \right.$	
L_{11a158}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + 3z_2} + 6B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 7B_1 e^{e^{b_1} z_2 + 3z_2} - 9B_1 e^{2e^{b_1} z_2 + 2z_2} + 7B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 6e^{2e^{b_1} z_2 + 2z_2}} \right) \right.$	
L_{11a159}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + 3z_2} + 6B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 9B_1 e^{e^{b_1} z_2 + 3z_2} - 15B_1 e^{2e^{b_1} z_2 + 2z_2} + 9B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 6e^{2e^{b_1} z_2 + 2z_2}} \right) \right.$	
L_{11a160}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + 3z_2} + 6B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 7B_1 e^{e^{b_1} z_2 + 3z_2} - 11B_1 e^{2e^{b_1} z_2 + 2z_2} + 7B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 6e^{2e^{b_1} z_2 + 2z_2}} \right) \right.$	
L_{11a161}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + 3z_2} + 6B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 9B_1 e^{e^{b_1} z_2 + 3z_2} - 13B_1 e^{2e^{b_1} z_2 + 2z_2} + 9B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 6e^{2e^{b_1} z_2 + 2z_2}} \right) \right.$	
L_{11a162}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1} z_2} - 2B_1^2 e^{e^{b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 4B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 4B_1 e^{3e^{b_1} z_2 + z_2} - 4e^{e^{b_1} z_2 + 3z_2} + 4e^{2e^{b_1} z_2 + 2z_2}} \right) \right.$	
Continued on next page		

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a163}	$\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{3B_1^2 e^{4e^{3b_1} z_2} - B_1^2 e^{e^{3b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - 5B_1^2 e^{3e^{3b_1} z_2 + z_2} - B_1 e^{4e^{3b_1} z_2} + 5B_1 e^{e^{3b_1} z_2 + 3z_2} - 7B_1 e^{2e^{3b_1} z_2 + 2z_2} + 5B_1 e^{3e^{3b_1} z_2 + z_2} - 5e^{e^{3b_1} z_2 + 3z_2} + 4e^{2e^{3b_1} z_2 + 2z_2} - 5e^{3e^{3b_1} z_2 + z_2}} \right)$	
L_{11a164}	$\left(\frac{B_1^2 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2^2}{2}} + B_1 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2^2}{2}} + e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2^2}{2}}}{B_1^2 e^{6e^{3b_1} z_2} + 2B_1^2 e^{2e^{3b_1} z_2 + 4z_2} - 3B_1^2 e^{3e^{3b_1} z_2 + 3z_2} + 3B_1^2 e^{4e^{3b_1} z_2 + 2z_2} - 2B_1^2 e^{5e^{3b_1} z_2 + z_2} + 2B_1 e^{e^{3b_1} z_2 + 5z_2} - 4B_1 e^{2e^{3b_1} z_2 + 4z_2} + 5B_1 e^{3e^{3b_1} z_2 + 3z_2} - 4B_1 e^{4e^{3b_1} z_2 + 2z_2} - 5e^{e^{3b_1} z_2 + 5z_2} + 4e^{2e^{3b_1} z_2 + 4z_2} - 5e^{3e^{3b_1} z_2 + 3z_2} + 4e^{4e^{3b_1} z_2 + 2z_2} - 5e^{5e^{3b_1} z_2 + z_2}} \right)$	
L_{11a165}	$\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^2 e^{4e^{3b_1} z_2} + 3B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{3b_1} z_2 + z_2} + 3B_1 e^{e^{3b_1} z_2 + 3z_2} - 5B_1 e^{2e^{3b_1} z_2 + 2z_2} + 3B_1 e^{3e^{3b_1} z_2 + z_2} - 4e^{e^{3b_1} z_2 + 3z_2} + 3e^{2e^{3b_1} z_2 + 2z_2} + 2e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^2 e^{4e^{3b_1} z_2} + 3B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{3b_1} z_2 + z_2} + 3B_1 e^{e^{3b_1} z_2 + 3z_2} - 5B_1 e^{2e^{3b_1} z_2 + 2z_2} + 3B_1 e^{3e^{3b_1} z_2 + z_2} - 4e^{e^{3b_1} z_2 + 3z_2} + 3e^{2e^{3b_1} z_2 + 2z_2} + 2e^{4z_2}} \right)_{(\{1\}, \{2\})}$	
L_{11a166}	$\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2^2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 5B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 5B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + 3z_2} - 7B_1 e^{2e^{b_1} z_2 + 2z_2} + 5B_1 e^{3e^{b_1} z_2 + z_2} - 5e^{e^{b_1} z_2 + 3z_2} + 5e^{2e^{b_1} z_2 + 2z_2} - 5e^{3e^{b_1} z_2 + z_2}} \right)$	
L_{11a167}	$\left(-\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2^2}{2}}}{-2B_1^2 e^{4e^{-b_1} z_2} + 2B_1^2 e^{e^{-b_1} z_2 + 3z_2} - 5B_1^2 e^{2e^{-b_1} z_2 + 2z_2} + 5B_1^2 e^{3e^{-b_1} z_2 + z_2} + 2B_1 e^{4e^{-b_1} z_2} - 9B_1 e^{e^{-b_1} z_2 + 3z_2} + 13B_1 e^{2e^{-b_1} z_2 + 2z_2} - 9B_1 e^{3e^{-b_1} z_2 + z_2} + 5e^{-b_1} z_2 + 3z_2 - 5e^{2e^{-b_1} z_2 + 2z_2} + 5e^{3e^{-b_1} z_2 + z_2}} \right)$	
L_{11a168}	$\left(-\frac{B_1 e^{\frac{7}{2} e^{b_1} z_2 + \frac{5z_2^2}{2}}}{B_1^2 e^{6e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 5z_2} + 3B_1^2 e^{2e^{b_1} z_2 + 4z_2} - 4B_1^2 e^{3e^{b_1} z_2 + 3z_2} + 4B_1^2 e^{4e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{5e^{b_1} z_2 + z_2} - B_1 e^{6e^{b_1} z_2} + 4B_1 e^{e^{b_1} z_2 + 5z_2} - 7B_1 e^{2e^{b_1} z_2 + 4z_2} + 7B_1 e^{3e^{b_1} z_2 + 3z_2} - 4e^{e^{b_1} z_2 + 5z_2} + 4e^{2e^{b_1} z_2 + 4z_2} - 4e^{3e^{b_1} z_2 + 3z_2} + 4e^{4e^{b_1} z_2 + 2z_2} - 4e^{5e^{b_1} z_2 + z_2}} \right)$	
L_{11a169}	$\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2^2}{2}}}{2B_1^2 e^{4e^{b_1} z_2} - 2B_1^2 e^{e^{b_1} z_2 + 3z_2} + 6B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 6B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 9B_1 e^{e^{b_1} z_2 + 3z_2} - 15B_1 e^{2e^{b_1} z_2 + 2z_2} + 9B_1 e^{3e^{b_1} z_2 + z_2} - 6e^{e^{b_1} z_2 + 3z_2} + 6e^{2e^{b_1} z_2 + 2z_2} - 6e^{3e^{b_1} z_2 + z_2}} \right)$	
L_{11a170}	$\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2^2}{2}}}{B_1^2 e^{4e^{-b_1} z_2} - 6B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 8B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1} z_2 + z_2} - 3B_1 e^{4e^{-b_1} z_2} + 11B_1 e^{e^{-b_1} z_2 + 3z_2} - 15B_1 e^{2e^{-b_1} z_2 + 2z_2} + 11B_1 e^{3e^{-b_1} z_2 + z_2} + 2e^{-b_1} z_2 + 3z_2 - 5e^{2e^{-b_1} z_2 + 2z_2} + 5e^{3e^{-b_1} z_2 + z_2}} \right)$	
L_{11a171}	$\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2^2}{2}}}{2B_1^2 e^{4e^{b_1} z_2} - 5B_1^2 e^{e^{b_1} z_2 + 3z_2} + 9B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 7B_1^2 e^{3e^{b_1} z_2 + z_2} - 3B_1 e^{4e^{b_1} z_2} + 12B_1 e^{e^{b_1} z_2 + 3z_2} - 17B_1 e^{2e^{b_1} z_2 + 2z_2} + 12B_1 e^{3e^{b_1} z_2 + z_2} + 4e^{e^{b_1} z_2 + 3z_2} - 4e^{2e^{b_1} z_2 + 2z_2} + 4e^{3e^{b_1} z_2 + z_2}} \right)$	
	Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a172}	$\left(\left(-\frac{B_1 e^{\frac{7}{2}e^{b_1}z_2 + \frac{5}{2}z_2}}{B_1^2 e^{6e^{b_1}z_2} - B_1^2 e^{e^{b_1}z_2 + 5z_2} + 2B_1^2 e^{2e^{b_1}z_2 + 4z_2} - 3B_1^2 e^{3e^{b_1}z_2 + 3z_2} + 3B_1^2 e^{4e^{b_1}z_2 + 2z_2} - 2B_1^2 e^{5e^{b_1}z_2 + z_2} - B_1 e^{6e^{b_1}z_2} + 3B_1 e^{e^{b_1}z_2 + 5z_2} - 5B_1 e^{2e^{b_1}z_2 + 4z_2} + 5B_1 e^{3e^{b_1}z_2 + 3z_2}} \right) \right)$
L_{11a173}	$\left(\left(-\frac{B_1 e^{\frac{7}{2}e^{b_1}z_2 + \frac{5}{2}z_2}}{B_1^2 e^{6e^{b_1}z_2} - B_1^2 e^{e^{b_1}z_2 + 5z_2} + 2B_1^2 e^{2e^{b_1}z_2 + 4z_2} - 3B_1^2 e^{3e^{b_1}z_2 + 3z_2} + 3B_1^2 e^{4e^{b_1}z_2 + 2z_2} - 2B_1^2 e^{5e^{b_1}z_2 + z_2} - B_1 e^{6e^{b_1}z_2} + 3B_1 e^{e^{b_1}z_2 + 5z_2} - 5B_1 e^{2e^{b_1}z_2 + 4z_2} + 7B_1 e^{3e^{b_1}z_2 + 3z_2}} \right) \right)$
L_{11a174}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3}{2}z_2}}{2B_1^2 e^{4e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + 3z_2} + 4B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1 e^{4e^{b_1}z_2} + 7B_1 e^{e^{b_1}z_2 + 3z_2} - 11B_1 e^{2e^{b_1}z_2 + 2z_2} + 7B_1 e^{3e^{b_1}z_2 + z_2} - 4e^{b_1}z_2 + 3z_2 + 4e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
L_{11a175}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3}{2}z_2}}{2B_1^2 e^{4e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + 3z_2} + 4B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1 e^{4e^{b_1}z_2} + 5B_1 e^{e^{b_1}z_2 + 3z_2} - 5B_1 e^{2e^{b_1}z_2 + 2z_2} + 5B_1 e^{3e^{b_1}z_2 + z_2} - 4e^{b_1}z_2 + 3z_2 + 4e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
L_{11a176}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{-b_1}z_2}}{B_1^2 \left(-e^{6e^{-b_1}z_2} \right) + B_1^2 e^{e^{-b_1}z_2 + 5z_2} - 3B_1^2 e^{2e^{-b_1}z_2 + 4z_2} + 5B_1^2 e^{3e^{-b_1}z_2 + 3z_2} - 5B_1^2 e^{4e^{-b_1}z_2 + 2z_2} + 3B_1^2 e^{5e^{-b_1}z_2 + z_2} + B_1 e^{6e^{-b_1}z_2} - 4B_1 e^{e^{-b_1}z_2 + 5z_2} + 8B_1 e^{2e^{-b_1}z_2 + 4z_2}} \right) \right)$
L_{11a177}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{-b_1}z_2}}{B_1^2 \left(-e^{6e^{-b_1}z_2} \right) + B_1^2 e^{e^{-b_1}z_2 + 5z_2} - 3B_1^2 e^{2e^{-b_1}z_2 + 4z_2} + 5B_1^2 e^{3e^{-b_1}z_2 + 3z_2} - 5B_1^2 e^{4e^{-b_1}z_2 + 2z_2} + 3B_1^2 e^{5e^{-b_1}z_2 + z_2} + B_1 e^{6e^{-b_1}z_2} - 4B_1 e^{e^{-b_1}z_2 + 5z_2} + 9B_1 e^{2e^{-b_1}z_2 + 4z_2}} \right) \right)$
L_{11a178}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5}{2}z_2}}{2B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1 e^{4e^{-b_1}z_2} + 10B_1 e^{e^{-b_1}z_2 + 3z_2} - 15B_1 e^{2e^{-b_1}z_2 + 2z_2} + 10B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 5e^{e^{-b_1}z_2 + 3z_2} + 4e^{2e^{-b_1}z_2 + 2z_2} - 4e^{3e^{-b_1}z_2 + z_2} + 3e^{4e^{-b_1}z_2}} \right) \right)$
L_{11a179}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5}{2}z_2}}{2B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1 e^{4e^{-b_1}z_2} + 10B_1 e^{e^{-b_1}z_2 + 3z_2} - 13B_1 e^{2e^{-b_1}z_2 + 2z_2} + 10B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 5e^{e^{-b_1}z_2 + 3z_2} + 4e^{2e^{-b_1}z_2 + 2z_2} - 4e^{3e^{-b_1}z_2 + z_2} + 3e^{4e^{-b_1}z_2}} \right) \right)$
L_{11a180}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5}{2}z_2}}{B_1^2 e^{4e^{-b_1}z_2} - 6B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 9B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1 e^{4e^{-b_1}z_2} + 11B_1 e^{e^{-b_1}z_2 + 3z_2} - 19B_1 e^{2e^{-b_1}z_2 + 2z_2} + 11B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 5e^{e^{-b_1}z_2 + 3z_2} + 4e^{2e^{-b_1}z_2 + 2z_2} - 4e^{3e^{-b_1}z_2 + z_2} + 3e^{4e^{-b_1}z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a181}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2} - 3B_1^2 e^{e^{b_1}z_2 + 3z_2} + 8B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 7B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1^2 e^{4e^{b_1}z_2} + 9B_1^2 e^{e^{b_1}z_2 + 3z_2} - 15B_1^2 e^{2e^{b_1}z_2 + 2z_2} + 9B_1^2 e^{3e^{b_1}z_2 + z_2} - 7e^{e^{b_1}z_2 + 3z_2} + 8e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
L_{11a182}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{2B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1^2 e^{4e^{-b_1}z_2} + 9B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 11B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 9B_1^2 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 5e^{e^{-b_1}z_2 + 3z_2}} \right) \right)$
L_{11a183}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{2B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1^2 e^{4e^{-b_1}z_2} + 9B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 13B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 9B_1^2 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 5e^{e^{-b_1}z_2 + 3z_2}} \right) \right)$
L_{11a184}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2} - 4B_1^2 e^{e^{b_1}z_2 + 3z_2} + 7B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 6B_1^2 e^{3e^{b_1}z_2 + z_2} - 3B_1^2 e^{4e^{b_1}z_2} + 10B_1^2 e^{e^{b_1}z_2 + 3z_2} - 15B_1^2 e^{2e^{b_1}z_2 + 2z_2} + 10B_1^2 e^{3e^{b_1}z_2 + z_2} + e^{4e^{b_1}z_2} - 6e^{e^{b_1}z_2 + 3z_2}} \right) \right)$
L_{11a185}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{4B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 6B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{3b_1}z_2 + z_2} + 2B_1^2 e^{4e^{3b_1}z_2} - 8B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 11B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 8B_1^2 e^{3e^{3b_1}z_2 + z_2} - 4e^{e^{3b_1}z_2 + 3z_2} + 2e^{2e^{3b_1}z_2 + 2z_2} - 6e^{3e^{3b_1}z_2 + z_2}} \right) \right)$
L_{11a186}	$\left(\left(\frac{B_1^2 e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{e^{3b_1}z_2 + 5z_2} - 2B_1^2 e^{2e^{3b_1}z_2 + 4z_2} + 2B_1^2 e^{3e^{3b_1}z_2 + 3z_2} - 2B_1^2 e^{4e^{3b_1}z_2 + 2z_2} + B_1^2 e^{5e^{3b_1}z_2 + z_2} + B_1^2 e^{6e^{3b_1}z_2} - 3B_1^2 e^{e^{3b_1}z_2 + 5z_2} + 5B_1^2 e^{2e^{3b_1}z_2 + 4z_2} - 5B_1^2 e^{3e^{3b_1}z_2 + 3z_2}} \right) \right)$
L_{11a187}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{4B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 5B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{3b_1}z_2 + z_2} + 2B_1^2 e^{4e^{3b_1}z_2} - 7B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 11B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 7B_1^2 e^{3e^{3b_1}z_2 + z_2} + 2e^{e^{3b_1}z_2 + 3z_2} - 5e^{2e^{3b_1}z_2 + 2z_2} + 4e^{3e^{3b_1}z_2 + z_2}} \right) \right)$
L_{11a188}	$\left(\left(-\frac{B_1 e^{\frac{7}{2}e^{b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{e^{b_1}z_2 + 5z_2} - B_1^2 e^{2e^{b_1}z_2 + 4z_2} + B_1^2 e^{3e^{b_1}z_2 + 3z_2} - B_1^2 e^{4e^{b_1}z_2 + 2z_2} + B_1^2 e^{5e^{b_1}z_2 + z_2} + B_1^2 e^{6e^{b_1}z_2} - 3B_1^2 e^{e^{b_1}z_2 + 5z_2} + 3B_1^2 e^{2e^{b_1}z_2 + 4z_2} - 3B_1^2 e^{3e^{b_1}z_2 + 3z_2} + 3B_1^2 e^{4e^{b_1}z_2} - 3e^{e^{b_1}z_2 + 5z_2}} \right) \right)$
L_{11a189}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{3B_1^2 e^{e^{b_1}z_2 + 3z_2} - 3B_1^2 e^{2e^{b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{b_1}z_2 + z_2} + 2B_1^2 e^{4e^{b_1}z_2} - 7B_1^2 e^{e^{b_1}z_2 + 3z_2} + 9B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 7B_1^2 e^{3e^{b_1}z_2 + z_2} - 2e^{4e^{b_1}z_2} + 2e^{e^{b_1}z_2 + 3z_2} - 3e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a190}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1 z_2} + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1 z_2} + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1 z_2} + \frac{z_2}{2}}}{4B_1^2 e^{e^{3b_1 z_2} + 3z_2} - 4B_1^2 e^{2e^{3b_1 z_2} + 2z_2} + 2B_1^2 e^{3e^{3b_1 z_2} + z_2} + 2B_1 e^{4e^{3b_1 z_2}} - 6B_1 e^{e^{3b_1 z_2} + 3z_2} + 9B_1 e^{2e^{3b_1 z_2} + 2z_2} - 6B_1 e^{3e^{3b_1 z_2} + z_2} - e^{4e^{3b_1 z_2}} + 2e^{e^{3b_1 z_2} + 3z_2} - 4e^{2e^{3b_1 z_2} + 2z_2}} \right) \right)$
L_{11a191}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1 z_2} + \frac{3z_2}{2}}}{3B_1^2 e^{e^{b_1 z_2} + 3z_2} - 3B_1^2 e^{2e^{b_1 z_2} + 2z_2} + 2B_1^2 e^{3e^{b_1 z_2} + z_2} + 2B_1 e^{4e^{b_1 z_2}} - 6B_1 e^{e^{b_1 z_2} + 3z_2} + 7B_1 e^{2e^{b_1 z_2} + 2z_2} - 6B_1 e^{3e^{b_1 z_2} + z_2} - 2e^{4e^{b_1 z_2}} + 2e^{e^{b_1 z_2} + 3z_2} - 3e^{2e^{b_1 z_2} + 2z_2}} \right) \right)$
L_{11a192}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1 z_2} + \frac{z_2}{2}}}{3B_1^2 e^{e^{b_1 z_2} + z_2} + 3B_1 e^{2e^{b_1 z_2}} - 7B_1 e^{e^{b_1 z_2} + z_2} - 3e^{2e^{b_1 z_2}} + 3e^{e^{b_1 z_2} + z_2} - 3B_1^2 e^{2z_2} + 3B_1 e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2 e^{\frac{3}{2} e^{b_2 z_1} + \frac{z_1}{2}}}{3B_2^2 e^{e^{b_2 z_1} + z_1} + 3B_2 e^{2e^{b_2 z_1}} - 7B_2 e^{e^{b_2 z_1} + z_1} - 3e^{2e^{b_2 z_1}}} \right)$
L_{11a193}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{-b_1 z_2} + \frac{5z_2}{2}}}{2B_1^2 e^{4e^{-b_1 z_2}} - 3B_1^2 e^{e^{-b_1 z_2} + 3z_2} + 4B_1^2 e^{2e^{-b_1 z_2} + 2z_2} - 4B_1^2 e^{3e^{-b_1 z_2} + z_2} - 3B_1 e^{4e^{-b_1 z_2}} + 6B_1 e^{e^{-b_1 z_2} + 3z_2} - 7B_1 e^{2e^{-b_1 z_2} + 2z_2} + 6B_1 e^{3e^{-b_1 z_2} + z_2} + 2e^{4e^{-b_1 z_2}} - 4e^{e^{-b_1 z_2} + 3z_2} - 3e^{2e^{-b_1 z_2} + 2z_2}} \right) \right)$
L_{11a194}	$\left(\left(-\frac{B_1 e^{\frac{1}{2} e^{-b_1 z_2} + \frac{3z_2}{2}}}{3B_1^2 e^{2e^{-b_1 z_2}} - 5B_1^2 e^{e^{-b_1 z_2} + z_2} - 5B_1 e^{2e^{-b_1 z_2}} + 9B_1 e^{e^{-b_1 z_2} + z_2} + 2e^{2e^{-b_1 z_2}} - 5e^{e^{-b_1 z_2} + z_2} + 2B_1^2 e^{2z_2} - 5B_1 e^{2z_2} + 3e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2 e^{\frac{1}{2} e^{-b_2 z_1} + \frac{3z_1}{2}}}{3B_2^2 e^{2e^{-b_2 z_1}} - 5B_2^2 e^{e^{-b_2 z_1} + z_1} - 5B_2 e^{2e^{-b_2 z_1}} + 9B_2 e^{e^{-b_2 z_1} + z_1} + 2e^{2e^{-b_2 z_1}} - 5e^{e^{-b_2 z_1} + z_1} + 2B_2^2 e^{2z_1} - 5B_2 e^{2z_1} + 3e^{2z_1}} \right)$
L_{11a195}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1 z_2} + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1 z_2}} - 4B_1^2 e^{e^{-b_1 z_2} + 3z_2} + 4B_1^2 e^{2e^{-b_1 z_2} + 2z_2} - 3B_1^2 e^{3e^{-b_1 z_2} + z_2} - 3B_1 e^{4e^{-b_1 z_2}} + 8B_1 e^{e^{-b_1 z_2} + 3z_2} - 9B_1 e^{2e^{-b_1 z_2} + 2z_2} + 8B_1 e^{3e^{-b_1 z_2} + z_2} + 2e^{4e^{-b_1 z_2}} - 3e^{e^{-b_1 z_2} + 3z_2} - 3e^{2e^{-b_1 z_2} + 2z_2}} \right) \right)$
L_{11a196}	$\left(\left(\frac{B_1 e^{\frac{1}{2} e^{-b_1 z_2} + \frac{3z_2}{2}}}{2B_1^2 e^{2e^{-b_1 z_2}} - 5B_1^2 e^{e^{-b_1 z_2} + z_2} - 5B_1 e^{2e^{-b_1 z_2}} + 11B_1 e^{e^{-b_1 z_2} + z_2} + 3e^{2e^{-b_1 z_2}} - 5e^{e^{-b_1 z_2} + z_2} + 3B_1^2 e^{2z_2} - 5B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2 e^{\frac{1}{2} e^{-b_2 z_1} + \frac{3z_1}{2}}}{2B_2^2 e^{2e^{-b_2 z_1}} - 5B_2^2 e^{e^{-b_2 z_1} + z_1} - 5B_2 e^{2e^{-b_2 z_1}} + 11B_2 e^{e^{-b_2 z_1} + z_1} + 3e^{2e^{-b_2 z_1}} - 5e^{e^{-b_2 z_1} + z_1} + 2B_2^2 e^{2z_1} - 5B_2 e^{2z_1} + 2e^{2z_1}} \right)$
L_{11a197}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1 z_2} + \frac{5z_2}{2}}}{-5B_1^2 e^{e^{-b_1 z_2} + 3z_2} + 8B_1^2 e^{2e^{-b_1 z_2} + 2z_2} - 4B_1^2 e^{3e^{-b_1 z_2} + z_2} - B_1 e^{4e^{-b_1 z_2}} + 10B_1 e^{e^{-b_1 z_2} + 3z_2} - 17B_1 e^{2e^{-b_1 z_2} + 2z_2} + 10B_1 e^{3e^{-b_1 z_2} + z_2} + e^{4e^{-b_1 z_2}} - 4e^{e^{-b_1 z_2} + 3z_2} + 8e^{2e^{-b_1 z_2} + 2z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a198}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2(-e^{4e^{-b_1}z_2}) + 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 8B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 5B_1^2 e^{3e^{-b_1}z_2 + z_2} + B_1^2 e^{4e^{-b_1}z_2} - 8B_1 e^{e^{-b_1}z_2 + 3z_2} + 15B_1 e^{2e^{-b_1}z_2 + 2z_2} - 8B_1 e^{3e^{-b_1}z_2 + z_2} + 5e^{e^{-b_1}z_2 + 3z_2} - 4e^{2e^{-b_1}z_2 + 2z_2}} \right) \right)$
L_{11a199}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1}z_2} - B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 4B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 6B_1^2 e^{3e^{3b_1}z_2 + z_2} - B_1^2 e^{4e^{3b_1}z_2} + 5B_1 e^{e^{3b_1}z_2 + 3z_2} - 9B_1 e^{2e^{3b_1}z_2 + 2z_2} + 5B_1 e^{3e^{3b_1}z_2 + z_2} - 6e^{e^{3b_1}z_2 + 3z_2} + 4e^{2e^{3b_1}z_2 + 2z_2}} \right) \right)$
L_{11a200}	$\left(\left(\frac{B_1^2 e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{6e^{3b_1}z_2} + 2B_1^2 e^{2e^{3b_1}z_2 + 4z_2} - 2B_1^2 e^{3e^{3b_1}z_2 + 3z_2} + 2B_1^2 e^{4e^{3b_1}z_2 + 2z_2} - 2B_1^2 e^{5e^{3b_1}z_2 + z_2} + 2B_1 e^{e^{3b_1}z_2 + 5z_2} - 3B_1 e^{2e^{3b_1}z_2 + 4z_2} + 3B_1 e^{3e^{3b_1}z_2 + 3z_2} - 3B_1 e^{4e^{3b_1}z_2 + 2z_2}} \right) \right)$
L_{11a201}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1}z_2} + 4B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{3b_1}z_2 + z_2} + 4B_1 e^{e^{3b_1}z_2 + 3z_2} - 7B_1 e^{2e^{3b_1}z_2 + 2z_2} + 4B_1 e^{3e^{3b_1}z_2 + z_2} - 5e^{e^{3b_1}z_2 + 3z_2} + 4e^{2e^{3b_1}z_2 + 2z_2} + 2e^{4z_2}} \right) \right)_{(\{1\}, \{2\})}, \left(\right)$
L_{11a202}	$\left(\left(-\frac{B_1 e^{\frac{7}{2}e^{b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{6e^{b_1}z_2} - B_1^2 e^{e^{b_1}z_2 + 5z_2} + B_1^2 e^{2e^{b_1}z_2 + 4z_2} - B_1^2 e^{3e^{b_1}z_2 + 3z_2} + B_1^2 e^{4e^{b_1}z_2 + 2z_2} - B_1^2 e^{5e^{b_1}z_2 + z_2} - B_1 e^{6e^{b_1}z_2} + B_1 e^{e^{b_1}z_2 + 5z_2} - B_1 e^{2e^{b_1}z_2 + 4z_2} + B_1 e^{3e^{b_1}z_2 + 3z_2} - 3e^{e^{b_1}z_2 + 5z_2}} \right) \right)$
L_{11a203}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1 e^{4e^{b_1}z_2} + 3B_1 e^{e^{b_1}z_2 + 3z_2} - 3B_1 e^{2e^{b_1}z_2 + 2z_2} + 3B_1 e^{3e^{b_1}z_2 + z_2} - 3e^{e^{b_1}z_2 + 3z_2} + 3e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
L_{11a204}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1}z_2} - B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 4B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{3b_1}z_2 + z_2} - B_1 e^{4e^{3b_1}z_2} + 5B_1 e^{e^{3b_1}z_2 + 3z_2} - 7B_1 e^{2e^{3b_1}z_2 + 2z_2} + 5B_1 e^{3e^{3b_1}z_2 + z_2} - 4e^{e^{3b_1}z_2 + 3z_2} + 4e^{2e^{3b_1}z_2 + 2z_2}} \right) \right)$
L_{11a205}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2} - 2B_1^2 e^{e^{b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1 e^{4e^{b_1}z_2} + 4B_1 e^{e^{b_1}z_2 + 3z_2} - 5B_1 e^{2e^{b_1}z_2 + 2z_2} + 4B_1 e^{3e^{b_1}z_2 + z_2} - 3e^{e^{b_1}z_2 + 3z_2} + 3e^{2e^{b_1}z_2 + 2z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a206}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{3B_1^2 e^{2e^{b_1}z_2} - 3B_1^2 e^{e^{b_1}z_2 + z_2} - 3B_1 e^{2e^{b_1}z_2 + 5B_1 e^{e^{b_1}z_2 + z_2} - 3e^{e^{b_1}z_2 + z_2} - 3B_1 e^{2z_2 + 3e^{2z_2}}}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2 e^{\frac{3}{2}e^{b_2}z_1 + \frac{z_1}{2}}}{3B_2^2 e^{2e^{b_2}z_1} - 3B_2^2 e^{e^{b_2}z_1 + z_1} - 3B_2 e^{2e^{b_2}z_1 + 5B_2 e^{e^{b_2}z_1 + z_1} - 3e^{e^{b_2}z_1 + z_1} - 3B_2 e^{2z_1 + 3e^{2z_1}}}} \right)_{(\{1\}, \{2\})} \right)$	
L_{11a207}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{2B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 7B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 6B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1 e^{4e^{-b_1}z_2} + 10B_1 e^{e^{-b_1}z_2 + 3z_2} - 15B_1 e^{2e^{-b_1}z_2 + 2z_2} + 10B_1 e^{3e^{-b_1}z_2 + 2z_2 + e^{4e^{-b_1}z_2} - 6e^{e^{-b_1}z_2 + 3z_2} - 6e^{e^{-b_1}z_2 + 2z_2} - 6e^{e^{-b_1}z_2 + z_2} - 6e^{2z_2 + 3e^{2z_2}}}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2 e^{\frac{3}{2}e^{-b_2}z_1 + \frac{5z_1}{2}}}{2B_2^2 e^{4e^{-b_2}z_1} - 4B_2^2 e^{e^{-b_2}z_1 + 3z_1} + 7B_2^2 e^{2e^{-b_2}z_1 + 2z_1} - 6B_2^2 e^{3e^{-b_2}z_1 + z_1} - 3B_2 e^{4e^{-b_2}z_1} + 10B_2 e^{e^{-b_2}z_1 + 3z_1} - 15B_2 e^{2e^{-b_2}z_1 + 2z_1} + 10B_2 e^{3e^{-b_2}z_1 + 2z_1 + e^{4e^{-b_2}z_1} - 6e^{e^{-b_2}z_1 + 3z_1} - 6e^{e^{-b_2}z_1 + 2z_1} - 6e^{e^{-b_2}z_1 + z_1} - 6e^{2z_1 + 3e^{2z_1}}}} \right)_{(\{1\}, \{2\})} \right)$	
L_{11a208}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{-b_1}z_2}}{B_1^2 (-e^{6e^{-b_1}z_2}) + B_1^2 e^{e^{-b_1}z_2 + 5z_2} - 2B_1^2 e^{2e^{-b_1}z_2 + 4z_2} + 2B_1^2 e^{3e^{-b_1}z_2 + 3z_2} - 2B_1^2 e^{4e^{-b_1}z_2 + 2z_2} + 2B_1^2 e^{5e^{-b_1}z_2 + z_2} + B_1 e^{6e^{-b_1}z_2} - 4B_1 e^{e^{-b_1}z_2 + 5z_2} + 5B_1 e^{2e^{-b_1}z_2 + 4z_2} - 4B_1 e^{3e^{-b_1}z_2 + 3z_2} - 4B_1 e^{4e^{-b_1}z_2 + 2z_2} - 4B_1 e^{5e^{-b_1}z_2 + z_2} - 4B_1 e^{2z_2 + 3e^{2z_2}}}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2 e^{\frac{5}{2}e^{-b_2}z_1}}{B_2^2 (-e^{6e^{-b_2}z_1}) + B_2^2 e^{e^{-b_2}z_1 + 5z_1} - 2B_2^2 e^{2e^{-b_2}z_1 + 4z_1} + 2B_2^2 e^{3e^{-b_2}z_1 + 3z_1} - 2B_2^2 e^{4e^{-b_2}z_1 + 2z_1} + 2B_2^2 e^{5e^{-b_2}z_1 + z_1} + B_2 e^{6e^{-b_2}z_1} - 4B_2 e^{e^{-b_2}z_1 + 5z_1} + 5B_2 e^{2e^{-b_2}z_1 + 4z_1} - 4B_2 e^{3e^{-b_2}z_1 + 3z_1} - 4B_2 e^{4e^{-b_2}z_1 + 2z_1} - 4B_2 e^{5e^{-b_2}z_1 + z_1} - 4B_2 e^{2z_1 + 3e^{2z_1}}}} \right)_{(\{1\}, \{2\})} \right)$	
L_{11a209}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{-2B_1^2 e^{4e^{-b_1}z_2} + 2B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 5B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 5B_1^2 e^{3e^{-b_1}z_2 + z_2} + 2B_1 e^{4e^{-b_1}z_2} - 9B_1 e^{e^{-b_1}z_2 + 3z_2} + 13B_1 e^{2e^{-b_1}z_2 + 2z_2} - 9B_1 e^{3e^{-b_1}z_2 + z_2} + 5e^{4e^{-b_1}z_2} - 6e^{e^{-b_1}z_2 + 3z_2} - 6e^{e^{-b_1}z_2 + 2z_2} - 6e^{e^{-b_1}z_2 + z_2} - 6e^{2z_2 + 3e^{2z_2}}}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2 e^{\frac{3}{2}e^{-b_2}z_1 + \frac{5z_1}{2}}}{-2B_2^2 e^{4e^{-b_2}z_1} + 2B_2^2 e^{e^{-b_2}z_1 + 3z_1} - 5B_2^2 e^{2e^{-b_2}z_1 + 2z_1} + 5B_2^2 e^{3e^{-b_2}z_1 + z_1} + 2B_2 e^{4e^{-b_2}z_1} - 9B_2 e^{e^{-b_2}z_1 + 3z_1} + 13B_2 e^{2e^{-b_2}z_1 + 2z_1} - 9B_2 e^{3e^{-b_2}z_1 + z_1} + 5e^{4e^{-b_2}z_1} - 6e^{e^{-b_2}z_1 + 3z_1} - 6e^{e^{-b_2}z_1 + 2z_1} - 6e^{e^{-b_2}z_1 + z_1} - 6e^{2z_1 + 3e^{2z_1}}}} \right)_{(\{1\}, \{2\})} \right)$	
L_{11a210}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{2B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1 e^{4e^{-b_1}z_2} + 9B_1 e^{e^{-b_1}z_2 + 3z_2} - 11B_1 e^{2e^{-b_1}z_2 + 2z_2} + 9B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 5e^{e^{-b_1}z_2 + 3z_2} - 5e^{e^{-b_1}z_2 + 2z_2} - 5e^{e^{-b_1}z_2 + z_2} - 5e^{2z_2 + 3e^{2z_2}}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2 e^{\frac{3}{2}e^{-b_2}z_1 + \frac{5z_1}{2}}}{2B_2^2 e^{4e^{-b_2}z_1} - 4B_2^2 e^{e^{-b_2}z_1 + 3z_1} + 6B_2^2 e^{2e^{-b_2}z_1 + 2z_1} - 5B_2^2 e^{3e^{-b_2}z_1 + z_1} - 3B_2 e^{4e^{-b_2}z_1} + 9B_2 e^{e^{-b_2}z_1 + 3z_1} - 11B_2 e^{2e^{-b_2}z_1 + 2z_1} + 9B_2 e^{3e^{-b_2}z_1 + z_1} + e^{4e^{-b_2}z_1} - 5e^{e^{-b_2}z_1 + 3z_1} - 5e^{e^{-b_2}z_1 + 2z_1} - 5e^{e^{-b_2}z_1 + z_1} - 5e^{2z_1 + 3e^{2z_1}}}} \right)_{(\{1\}, \{2\})} \right)$	
L_{11a211}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1}z_2} - 2B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{3b_1}z_2 + z_2} - 2B_1 e^{4e^{3b_1}z_2} + 8B_1 e^{e^{3b_1}z_2 + 3z_2} - 11B_1 e^{2e^{3b_1}z_2 + 2z_2} + 8B_1 e^{3e^{3b_1}z_2 + z_2} - 5e^{4e^{3b_1}z_2} + 6e^{e^{3b_1}z_2 + 3z_2} - 6e^{e^{3b_1}z_2 + 2z_2} - 6e^{e^{3b_1}z_2 + z_2} - 6e^{2z_2 + 3e^{2z_2}}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^2 e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}} + B_2 e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}} + e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}}}{2B_2^2 e^{4e^{3b_2}z_1} - 2B_2^2 e^{e^{3b_2}z_1 + 3z_1} + 6B_2^2 e^{2e^{3b_2}z_1 + 2z_1} - 5B_2^2 e^{3e^{3b_2}z_1 + z_1} - 2B_2 e^{4e^{3b_2}z_1} + 8B_2 e^{e^{3b_2}z_1 + 3z_1} - 11B_2 e^{2e^{3b_2}z_1 + 2z_1} + 8B_2 e^{3e^{3b_2}z_1 + z_1} - 5e^{4e^{3b_2}z_1} + 6e^{e^{3b_2}z_1 + 3z_1} - 6e^{e^{3b_2}z_1 + 2z_1} - 6e^{e^{3b_2}z_1 + z_1} - 6e^{2z_1 + 3e^{2z_1}}}} \right)_{(\{1\}, \{2\})} \right)$	
L_{11a212}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1}z_2} - 2B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 6B_1^2 e^{3e^{3b_1}z_2 + z_2} - 2B_1 e^{4e^{3b_1}z_2} + 7B_1 e^{e^{3b_1}z_2 + 3z_2} - 11B_1 e^{2e^{3b_1}z_2 + 2z_2} + 7B_1 e^{3e^{3b_1}z_2 + z_2} - 6e^{4e^{3b_1}z_2} + 5e^{e^{3b_1}z_2 + 3z_2} - 5e^{e^{3b_1}z_2 + 2z_2} - 5e^{e^{3b_1}z_2 + z_2} - 5e^{2z_2 + 3e^{2z_2}}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^2 \left(-e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}} \right) - B_2 e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}} - e^{\frac{7}{2}e^{3b_2}z_1 + \frac{z_1}{2}}}{2B_2^2 e^{4e^{3b_2}z_1} - 2B_2^2 e^{e^{3b_2}z_1 + 3z_1} + 5B_2^2 e^{2e^{3b_2}z_1 + 2z_1} - 6B_2^2 e^{3e^{3b_2}z_1 + z_1} - 2B_2 e^{4e^{3b_2}z_1} + 7B_2 e^{e^{3b_2}z_1 + 3z_1} - 11B_2 e^{2e^{3b_2}z_1 + 2z_1} + 7B_2 e^{3e^{3b_2}z_1 + z_1} - 6e^{4e^{3b_2}z_1} + 5e^{e^{3b_2}z_1 + 3z_1} - 5e^{e^{3b_2}z_1 + 2z_1} - 5e^{e^{3b_2}z_1 + z_1} - 5e^{2z_1 + 3e^{2z_1}}}} \right)_{(\{1\}, \{2\})} \right)$	
L_{11a213}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1}z_2} - 5B_1^2 e^{e^{b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1}z_2 + z_2} - 3B_1 e^{4e^{b_1}z_2} + 7B_1 e^{e^{b_1}z_2 + 3z_2} - 9B_1 e^{2e^{b_1}z_2 + 2z_2} + 7B_1 e^{3e^{b_1}z_2 + z_2} + 2e^{4e^{b_1}z_2} - 4e^{e^{b_1}z_2 + 3z_2} + 6e^{e^{b_1}z_2 + 2z_2} - 4e^{e^{b_1}z_2 + z_2} - 4e^{2z_2 + 3e^{2z_2}}}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2 e^{\frac{5}{2}e^{b_2}z_1 + \frac{3z_1}{2}}}{B_2^2 e^{4e^{b_2}z_1} - 5B_2^2 e^{e^{b_2}z_1 + 3z_1} + 6B_2^2 e^{2e^{b_2}z_1 + 2z_1} - 4B_2^2 e^{3e^{b_2}z_1 + z_1} - 3B_2 e^{4e^{b_2}z_1} + 7B_2 e^{e^{b_2}z_1 + 3z_1} - 9B_2 e^{2e^{b_2}z_1 + 2z_1} + 7B_2 e^{3e^{b_2}z_1 + z_1} + 2e^{4e^{b_2}z_1} - 4e^{e^{b_2}z_1 + 3z_1} + 6e^{e^{b_2}z_1 + 2z_1} - 4e^{e^{b_2}z_1 + z_1} - 4e^{2z_1 + 3e^{2z_1}}}} \right)_{(\{1\}, \{2\})} \right)$	
Continued on next page		TABLE OF V

Continued on next page

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a214}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1}z_2} - 4B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{3b_1}z_2 + z_2} - 3B_1^2 e^{4e^{3b_1}z_2} + 9B_1 e^{e^{3b_1}z_2 + 3z_2} - 13B_1 e^{2e^{3b_1}z_2 + 2z_2} + 9B_1 e^{3e^{3b_1}z_2 + z_2} - 4e^{e^{3b_1}z_2 + 3z_2} + 6e^{2e^{3b_1}z_2 + 2z_2} - 4e^{3e^{3b_1}z_2 + z_2}} \right) \right)$	
L_{11a215}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{2B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1^2 e^{4e^{-b_1}z_2} + 6B_1 e^{e^{-b_1}z_2 + 3z_2} - 7B_1 e^{2e^{-b_1}z_2 + 2z_2} + 6B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 4e^{e^{-b_1}z_2 + 3z_2} + 6e^{2e^{-b_1}z_2 + 2z_2} - 4e^{3e^{-b_1}z_2 + z_2}} \right) \right)$	
L_{11a216}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{4B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 6B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 4B_1^2 e^{3e^{3b_1}z_2 + z_2} + 2B_1^2 e^{4e^{3b_1}z_2} - 8B_1 e^{e^{3b_1}z_2 + 3z_2} + 13B_1 e^{2e^{3b_1}z_2 + 2z_2} - 8B_1 e^{3e^{3b_1}z_2 + z_2} - e^{4e^{3b_1}z_2} + 4e^{e^{3b_1}z_2 + 3z_2} - 6e^{2e^{3b_1}z_2 + 2z_2} + 4e^{3e^{3b_1}z_2 + z_2}} \right) \right)$	
L_{11a217}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{6B_1^2 e^{e^{b_1}z_2 + 3z_2} - 7B_1^2 e^{2e^{b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{b_1}z_2 + z_2} + B_1^2 e^{4e^{b_1}z_2} - 9B_1 e^{e^{b_1}z_2 + 3z_2} + 17B_1 e^{2e^{b_1}z_2 + 2z_2} - 9B_1 e^{3e^{b_1}z_2 + z_2} - e^{4e^{b_1}z_2} + 2e^{e^{b_1}z_2 + 3z_2} - 7e^{2e^{b_1}z_2 + 2z_2} + 6e^{3e^{b_1}z_2 + z_2}} \right) \right)$	
L_{11a218}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{2B_1^2 e^{4e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1^2 e^{4e^{-b_1}z_2} + 5B_1 e^{e^{-b_1}z_2 + 3z_2} - 5B_1 e^{2e^{-b_1}z_2 + 2z_2} + 5B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 3e^{e^{-b_1}z_2 + 3z_2} + 6e^{2e^{-b_1}z_2 + 2z_2} - 4e^{3e^{-b_1}z_2 + z_2}} \right) \right)$	
L_{11a219}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1^2 e^{4e^{-b_1}z_2} + 7B_1 e^{e^{-b_1}z_2 + 3z_2} - 7B_1 e^{2e^{-b_1}z_2 + 2z_2} + 7B_1 e^{3e^{-b_1}z_2 + z_2} + 2e^{4e^{-b_1}z_2} - 3e^{e^{-b_1}z_2 + 3z_2} - 6e^{2e^{-b_1}z_2 + 2z_2} + 4e^{3e^{-b_1}z_2 + z_2}} \right) \right)$	
L_{11a220}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1}z_2} - 5B_1^2 e^{e^{b_1}z_2 + 3z_2} + 7B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1^2 e^{4e^{b_1}z_2} + 8B_1 e^{e^{b_1}z_2 + 3z_2} - 13B_1 e^{2e^{b_1}z_2 + 2z_2} + 8B_1 e^{3e^{b_1}z_2 + z_2} + e^{4e^{b_1}z_2} - 4e^{e^{b_1}z_2 + 3z_2} + 6e^{2e^{b_1}z_2 + 2z_2} - 4e^{3e^{b_1}z_2 + z_2}} \right) \right)$	
L_{11a221}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1}z_2} - 6B_1^2 e^{e^{b_1}z_2 + z_2} - 6B_1^2 e^{2e^{b_1}z_2} + 13B_1 e^{e^{b_1}z_2 + z_2} + 4e^{2e^{b_1}z_2} - 6e^{e^{b_1}z_2 + z_2} + 4B_1^2 e^{2z_2} - 6B_1 e^{2z_2} + 2e^{2z_2}} \right) \right)_{(\{1\}, \{2\})}, \left(\frac{B_1 e^{\frac{3}{2}e^{b_1}z_2 + \frac{z_2}{2}}}{2B_2^2 e^{2e^{b_2}z_1} - 6B_2^2 e^{e^{b_2}z_1 + z_1} - 6B_2^2 e^{2e^{b_2}z_1} + 13B_2 e^{e^{b_2}z_1 + z_1} + 4e^{2e^{b_2}z_1} - 6e^{e^{b_2}z_1 + z_1} + 4B_2^2 e^{2z_1} - 6B_2 e^{2z_1} + 2e^{2z_1}} \right)_{(\{1\}, \{2\})}$	
Continued on next page		

TABLE OF VALUES 118

Column 1	Column 2	
L_{11a222}	$\left(\left(-\frac{B_1 e^{\frac{1}{2}e^{-b_1}z_2 + \frac{3z_2}{2}}}{4B_1^2 e^{2e^{-b_1}z_2 - 6B_1^2 e^{-b_1}z_2 + z_2} - 6B_1^2 e^{2e^{-b_1}z_2 + 11B_1 e^{-b_1}z_2 + z_2} + 2e^{2e^{-b_1}z_2 - 6e^{-b_1}z_2 + z_2} + 2B_1^2 e^{2z_2} - 6B_1 e^{2z_2} + 4e^{2z_2}} \right) \right)_{(\{1\}, \{2\})}$, $\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2 - 5B_1^2 e^{-b_1}z_2 + 3z_2} + 7B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1 e^{4e^{-b_1}z_2 + 10B_1 e^{-b_1}z_2 + 3z_2} - 17B_1 e^{2e^{-b_1}z_2 + 2z_2} + 10B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2 - 4e^{2z_2}} \right)$	
L_{11a223}	$\left(\left(-\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2 - 5B_1^2 e^{-b_1}z_2 + 3z_2} + 7B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1 e^{4e^{-b_1}z_2 + 10B_1 e^{-b_1}z_2 + 3z_2} - 17B_1 e^{2e^{-b_1}z_2 + 2z_2} + 10B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2 - 4e^{2z_2}} \right) \right)$	
L_{11a224}	$\left(\left(\frac{B_1 e^{\frac{7}{2}e^{b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{6e^{b_1}z_2 - B_1^2 e^{e^{b_1}z_2 + 5z_2} + 2B_1^2 e^{2e^{b_1}z_2 + 4z_2} - 3B_1^2 e^{3e^{b_1}z_2 + 3z_2} + 3B_1^2 e^{4e^{b_1}z_2 + 2z_2} - 2B_1^2 e^{5e^{b_1}z_2 + z_2} - B_1 e^{6e^{b_1}z_2 + 4B_1 e^{e^{b_1}z_2 + 5z_2} - 6B_1 e^{2e^{b_1}z_2 + 4z_2} + 7B_1 e^{3e^{b_1}z_2 + z_2}} \right) \right)$	
L_{11a225}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2 - 2B_1^2 e^{e^{b_1}z_2 + 3z_2} + 4B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1 e^{4e^{b_1}z_2 + 8B_1 e^{e^{b_1}z_2 + 3z_2} - 11B_1 e^{2e^{b_1}z_2 + 2z_2} + 8B_1 e^{3e^{b_1}z_2 + z_2} - 4e^{e^{b_1}z_2 + 3z_2} + 4e^{2e^{b_1}z_2 + z_2}} \right) \right)$	
L_{11a226}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{5B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 8B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 5B_1^2 e^{3e^{3b_1}z_2 + z_2} + 3B_1 e^{4e^{3b_1}z_2 - 11B_1 e^{e^{3b_1}z_2 + 3z_2} + 17B_1 e^{2e^{3b_1}z_2 + 2z_2} - 11B_1 e^{3e^{3b_1}z_2 + z_2} - e^{4e^{3b_1}z_2 + 5e^{e^{3b_1}z_2 + 3z_2} - 8e^{2e^{3b_1}z_2 + z_2}} \right) \right)$	
L_{11a227}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1}z_2 - 3B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 8B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{3b_1}z_2 + z_2} - 2B_1 e^{4e^{3b_1}z_2 + 10B_1 e^{e^{3b_1}z_2 + 3z_2} - 15B_1 e^{2e^{3b_1}z_2 + 2z_2} + 10B_1 e^{3e^{3b_1}z_2 + z_2} - 5e^{e^{3b_1}z_2 + 3z_2} + 8e^{2e^{3b_1}z_2 + z_2}} \right) \right)$	
L_{11a228}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{4e^{b_1}z_2 - 3B_1^2 e^{e^{b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{b_1}z_2 + z_2} - 2B_1 e^{4e^{b_1}z_2 + 9B_1 e^{e^{b_1}z_2 + 3z_2} - 13B_1 e^{2e^{b_1}z_2 + 2z_2} + 9B_1 e^{3e^{b_1}z_2 + z_2} - 5e^{e^{b_1}z_2 + 3z_2} + 6e^{2e^{b_1}z_2 + z_2}} \right) \right)$	
L_{11a229}	$\left(\left(\frac{B_1^2 e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2}e^{3b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{6e^{3b_1}z_2 + 3B_1^2 e^{2e^{3b_1}z_2 + 4z_2} - 5B_1^2 e^{3e^{3b_1}z_2 + 3z_2} + 5B_1^2 e^{4e^{3b_1}z_2 + 2z_2} - 3B_1^2 e^{5e^{3b_1}z_2 + z_2} + 3B_1 e^{e^{3b_1}z_2 + 5z_2} - 7B_1 e^{2e^{3b_1}z_2 + 4z_2} + 9B_1 e^{3e^{3b_1}z_2 + 3z_2} - 7B_1 e^{4e^{3b_1}z_2 + z_2}} \right) \right)$	
	Continued on next page	TABLE OF V

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a230}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1} z_2} - 2B_1^2 e^{e^{3b_1} z_2 + 3z_2} + 6B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - 5B_1^2 e^{3e^{3b_1} z_2 + z_2} - B_1 e^{4e^{3b_1} z_2} + 7B_1 e^{e^{3b_1} z_2 + 3z_2} - 11B_1 e^{2e^{3b_1} z_2 + 2z_2} + 7B_1 e^{3e^{3b_1} z_2 + z_2} - 5e^{e^{3b_1} z_2 + 3z_2} + 6e^{2e^{3b_1} z_2 + 2z_2} - 5e^{3e^{3b_1} z_2 + z_2}} \right) \right)$
L_{11a231}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} - e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{6B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 7B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + 2B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 8B_1 e^{e^{3b_1} z_2 + 3z_2} + 13B_1 e^{2e^{3b_1} z_2 + 2z_2} - 8B_1 e^{3e^{3b_1} z_2 + z_2} - 2e^{4e^{3b_1} z_2} + 2e^{e^{3b_1} z_2 + 3z_2} - 7e^{2e^{3b_1} z_2 + 2z_2} - 5e^{3e^{3b_1} z_2 + z_2}} \right) \right)$
L_{11a232}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1} z_2} - 6B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 7B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - 4B_1^2 e^{3e^{-b_1} z_2 + z_2} - 3B_1 e^{4e^{-b_1} z_2} + 11B_1 e^{e^{-b_1} z_2 + 3z_2} - 17B_1 e^{2e^{-b_1} z_2 + 2z_2} + 11B_1 e^{3e^{-b_1} z_2 + z_2} - 2e^{4e^{-b_1} z_2} - 4e^{e^{-b_1} z_2 + 3z_2} + 6e^{2e^{-b_1} z_2 + 2z_2} - 5e^{3e^{-b_1} z_2 + z_2}} \right) \right)$
L_{11a233}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{-6B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 7B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{-b_1} z_2 + z_2} - 2B_1 e^{4e^{-b_1} z_2} + 11B_1 e^{e^{-b_1} z_2 + 3z_2} - 17B_1 e^{2e^{-b_1} z_2 + 2z_2} + 11B_1 e^{3e^{-b_1} z_2 + z_2} + 2e^{4e^{-b_1} z_2} - 3e^{e^{-b_1} z_2 + 3z_2} + 7e^{2e^{-b_1} z_2 + 2z_2} - 5e^{3e^{-b_1} z_2 + z_2}} \right) \right)$
L_{11a234}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1} z_2} - 4B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{-b_1} z_2 + z_2} - 3B_1 e^{4e^{-b_1} z_2} + 8B_1 e^{e^{-b_1} z_2 + 3z_2} - 9B_1 e^{2e^{-b_1} z_2 + 2z_2} + 8B_1 e^{3e^{-b_1} z_2 + z_2} + 2e^{4e^{-b_1} z_2} - 3e^{e^{-b_1} z_2 + 3z_2} - 7e^{2e^{-b_1} z_2 + 2z_2} - 5e^{3e^{-b_1} z_2 + z_2}} \right) \right)$
L_{11a235}	$\left(\left(\frac{B_1^2 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}}}{-3B_1^2 e^{e^{3b_1} z_2 + 5z_2} + 4B_1^2 e^{2e^{3b_1} z_2 + 4z_2} - 4B_1^2 e^{3e^{3b_1} z_2 + 3z_2} + 3B_1^2 e^{4e^{3b_1} z_2 + 2z_2} + 3B_1 e^{e^{3b_1} z_2 + 5z_2} - 6B_1 e^{2e^{3b_1} z_2 + 4z_2} + 7B_1 e^{3e^{3b_1} z_2 + 3z_2} - 6B_1 e^{4e^{3b_1} z_2 + 2z_2} + 3B_1 e^{5e^{3b_1} z_2 + z_2} - 2e^{e^{3b_1} z_2 + 5z_2} + 2e^{2e^{3b_1} z_2 + 4z_2} - 2e^{3e^{3b_1} z_2 + 3z_2} + 2e^{4e^{3b_1} z_2 + 2z_2} - 2e^{5e^{3b_1} z_2 + z_2}} \right) \right)$
L_{11a236}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{-6B_1^2 e^{e^{3b_1} z_2 + 3z_2} + 5B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + 5B_1 e^{e^{3b_1} z_2 + 3z_2} - 9B_1 e^{2e^{3b_1} z_2 + 2z_2} + 5B_1 e^{3e^{3b_1} z_2 + z_2} + 2e^{4e^{3b_1} z_2} + 5e^{2e^{3b_1} z_2 + 2z_2} - 6e^{3e^{3b_1} z_2 + z_2} + 2B_1^2 e^{4z_2}} \right) \right)$
L_{11a237}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1} z_2} - 5B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 8B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1} z_2 + z_2} - 2B_1 e^{4e^{-b_1} z_2} + 9B_1 e^{e^{-b_1} z_2 + 3z_2} - 15B_1 e^{2e^{-b_1} z_2 + 2z_2} + 9B_1 e^{3e^{-b_1} z_2 + z_2} + e^{4e^{-b_1} z_2} - 5e^{e^{-b_1} z_2 + 3z_2} + 6e^{2e^{-b_1} z_2 + 2z_2} - 5e^{3e^{-b_1} z_2 + z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a238}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2} - 4B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 7B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1^2 e^{4e^{-b_1}z_2} + 8B_1 e^{-b_1}z_2 + 3z_2 - 11B_1 e^{2e^{-b_1}z_2 + 2z_2} + 8B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 5e^{e^{-b_1}z_2 + 3z_2} - 6e^{2e^{-b_1}z_2 + 2z_2} + 4e^{3e^{-b_1}z_2 + z_2} - 2e^{4e^{-b_1}z_2}} \right) \right)$	
L_{11a239}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{7B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 6B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{3b_1}z_2 + z_2} + B_1 e^{4e^{3b_1}z_2} - 7B_1 e^{e^{3b_1}z_2 + 3z_2} + 13B_1 e^{2e^{3b_1}z_2 + 2z_2} - 7B_1 e^{3e^{3b_1}z_2 + z_2} - 2e^{4e^{3b_1}z_2} + 2e^{e^{3b_1}z_2 + 3z_2} - 6e^{2e^{3b_1}z_2 + 2z_2} + 4e^{3e^{3b_1}z_2 + z_2} - 2e^{4e^{3b_1}z_2}} \right) \right)$	
L_{11a240}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1}z_2} - 4B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 4B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{3b_1}z_2 + z_2} - 3B_1 e^{4e^{3b_1}z_2} + 7B_1 e^{e^{3b_1}z_2 + 3z_2} - 7B_1 e^{2e^{3b_1}z_2 + 2z_2} + 7B_1 e^{3e^{3b_1}z_2 + z_2} + 3e^{4e^{3b_1}z_2} - 3e^{e^{3b_1}z_2 + 3z_2} - 6e^{2e^{3b_1}z_2 + 2z_2} + 4e^{3e^{3b_1}z_2 + z_2} - 2e^{4e^{3b_1}z_2}} \right) \right)$	
L_{11a241}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{3b_1}z_2} + B_1 e^{\frac{5}{2}e^{3b_1}z_2} + e^{\frac{5}{2}e^{3b_1}z_2}}{-6B_1^2 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + 2B_1^2 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 13B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - 6B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} - 6e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + 5e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + 5B_1^2 e^{\frac{5z_2}{2}} - 6B_1 e^{\frac{5z_2}{2}} + 2e^{\frac{5z_2}{2}}} \right) \right)$	$\left(\frac{1}{\{1\}, \{2\}} \right), \left(\frac{1}{-6B_2} \right)$
L_{11a242}	$\left(\left(-\frac{B_1 e^{\frac{1}{2}e^{-b_1}z_2 + \frac{3z_2}{2}}}{4B_1^2 e^{2e^{-b_1}z_2} - 7B_1^2 e^{e^{-b_1}z_2 + z_2} - 7B_1 e^{2e^{-b_1}z_2} + 13B_1 e^{e^{-b_1}z_2 + z_2} + 3e^{2e^{-b_1}z_2} - 7e^{e^{-b_1}z_2 + z_2} + 3B_1^2 e^{2z_2} - 7B_1 e^{2z_2} + 4e^{2z_2}} \right) \right)$	$\left(\frac{1}{\{1\}, \{2\}} \right), \left(-\frac{1}{4B_2^2 e^{2e^{-b_2}z_1} - 7B_2^2 e^{e^{-b_2}z_1 + z_2} - 7B_2 e^{2e^{-b_2}z_1} + 13B_2 e^{e^{-b_2}z_1 + z_2} + 3e^{2e^{-b_2}z_1} - 7e^{e^{-b_2}z_1 + z_2} + 3B_2^2 e^{2z_1} - 7B_2 e^{2z_1} + 4e^{2z_1}} \right)$
L_{11a243}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2} - 5B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 6B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 4B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1 e^{4e^{-b_1}z_2} + 10B_1 e^{e^{-b_1}z_2 + 3z_2} - 13B_1 e^{2e^{-b_1}z_2 + 2z_2} + 10B_1 e^{3e^{-b_1}z_2 + z_2} + 2e^{4e^{-b_1}z_2} - 4e^{e^{-b_1}z_2 + 3z_2} - 6e^{2e^{-b_1}z_2 + 2z_2} + 4e^{3e^{-b_1}z_2 + z_2} - 2e^{4e^{-b_1}z_2}} \right) \right)$	
L_{11a244}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1}z_2} - 6B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 9B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{3b_1}z_2 + z_2} - 2B_1 e^{4e^{3b_1}z_2} + 11B_1 e^{e^{3b_1}z_2 + 3z_2} - 19B_1 e^{2e^{3b_1}z_2 + 2z_2} + 11B_1 e^{3e^{3b_1}z_2 + z_2} - 5e^{e^{3b_1}z_2 + 3z_2} - 6e^{2e^{3b_1}z_2 + 2z_2} + 4e^{3e^{3b_1}z_2 + z_2} - 2e^{4e^{3b_1}z_2}} \right) \right)$	
L_{11a245}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{7B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 9B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 3B_1^2 e^{3e^{3b_1}z_2 + z_2} + 2B_1 e^{4e^{3b_1}z_2} - 11B_1 e^{e^{3b_1}z_2 + 3z_2} + 17B_1 e^{2e^{3b_1}z_2 + 2z_2} - 11B_1 e^{3e^{3b_1}z_2 + z_2} - 2e^{4e^{3b_1}z_2} + 3e^{e^{3b_1}z_2 + 3z_2} - 9e^{2e^{3b_1}z_2 + 2z_2} + 4e^{3e^{3b_1}z_2 + z_2} - 2e^{4e^{3b_1}z_2}} \right) \right)$	
	Continued on next page	

Continued on next page

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a246}	$\left(\left(\frac{B_1^3(-e^{2b_1z_2+4z_2})+3B_1^3e^{2e^{2b_1}z_2+3z_2}-3B_1^3e^{3e^{2b_1}z_2+2z_2}+B_1^3e^{4e^{2b_1}z_2+z_2}+B_1^2e^{5e^{2b_1}z_2+5B_1^2e^{2b_1}z_2+4z_2}-10B_1^2e^{2e^{2b_1}z_2+3z_2}+9B_1^2e^{3e^{2b_1}z_2+2z_2}-5B_1^2e^{4e^{2b_1}z_2+z_2}}}{B_1^3(-e^{2b_1z_2+4z_2})+3B_1^3e^{2e^{2b_1}z_2+3z_2}-3B_1^3e^{3e^{2b_1}z_2+2z_2}+B_1^3e^{4e^{2b_1}z_2+z_2}+B_1^2e^{5e^{2b_1}z_2+5B_1^2e^{2b_1}z_2+4z_2}-10B_1^2e^{2e^{2b_1}z_2+3z_2}+9B_1^2e^{3e^{2b_1}z_2+2z_2}-5B_1^2e^{4e^{2b_1}z_2+z_2}} \right) \right)$	$B_1^2(-e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}})-B_1e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}}$
L_{11a247}	$\left((1)_{(\{1\},\{2\})}, (1)_{(\{2\},\{1\})} \right)$	
L_{11a248}	$\left(\left(-\frac{B_1}{2B_1^2z_2-4B_1z_2-B_1+2z_2} \right)_{(\{1\},\{2\})}, \left(-\frac{B_2}{2B_2^2z_1-4B_2z_1-B_2+2z_1} \right)_{(\{2\},\{1\})} \right)$	
L_{11a249}	$\left(\left(-\frac{B_1}{2B_1^2z_2-4B_1z_2-B_1+2z_2} \right)_{(\{1\},\{2\})}, \left(\frac{B_2^2}{B_2^4z_1-6B_2^3z_1+10B_2^2z_1-6B_2z_1+B_2^2+z_1} \right)_{(\{2\},\{1\})} \right)$	
L_{11a250}	$\left(\left(\frac{B_1^3e^{5e^{2b_1}z_2}-B_1^3e^{2e^{2b_1}z_2+3z_2}+3B_1^3e^{3e^{2b_1}z_2+2z_2}-3B_1^3e^{4e^{2b_1}z_2+z_2}-B_1^2e^{5e^{2b_1}z_2}-B_1^2e^{e^{2b_1}z_2+4z_2}+5B_1^2e^{2e^{2b_1}z_2+3z_2}-8B_1^2e^{3e^{2b_1}z_2+2z_2}+4B_1^2e^{4e^{2b_1}z_2+z_2}}}{B_1^3e^{5e^{2b_1}z_2}-B_1^3e^{2e^{2b_1}z_2+3z_2}+3B_1^3e^{3e^{2b_1}z_2+2z_2}-3B_1^3e^{4e^{2b_1}z_2+z_2}-B_1^2e^{5e^{2b_1}z_2}-B_1^2e^{e^{2b_1}z_2+4z_2}+5B_1^2e^{2e^{2b_1}z_2+3z_2}-8B_1^2e^{3e^{2b_1}z_2+2z_2}+4B_1^2e^{4e^{2b_1}z_2+z_2}} \right) \right)$	$B_1^2(-e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}})-B_1e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}}$
L_{11a251}	$\left((1)_{(\{1\},\{2\})}, \left(\frac{B_2^3}{B_2^6z_1-2B_2^5z_1-B_2^4z_1+4B_2^3z_1-B_2^2z_1-2B_2z_1+B_2^3+z_1} \right)_{(\{2\},\{1\})} \right)$	
L_{11a252}	$\left(\left(\frac{B_1^3e^{5e^{2b_1}z_2}-B_1^3e^{2e^{2b_1}z_2+3z_2}+3B_1^3e^{3e^{2b_1}z_2+2z_2}-3B_1^3e^{4e^{2b_1}z_2+z_2}-B_1^2e^{5e^{2b_1}z_2}-2B_1^2e^{e^{2b_1}z_2+4z_2}+6B_1^2e^{2e^{2b_1}z_2+3z_2}-9B_1^2e^{3e^{2b_1}z_2+2z_2}+5B_1^2e^{4e^{2b_1}z_2+z_2}}}{B_1^3e^{5e^{2b_1}z_2}-B_1^3e^{2e^{2b_1}z_2+3z_2}+3B_1^3e^{3e^{2b_1}z_2+2z_2}-3B_1^3e^{4e^{2b_1}z_2+z_2}-B_1^2e^{5e^{2b_1}z_2}-2B_1^2e^{e^{2b_1}z_2+4z_2}+6B_1^2e^{2e^{2b_1}z_2+3z_2}-9B_1^2e^{3e^{2b_1}z_2+2z_2}+5B_1^2e^{4e^{2b_1}z_2+z_2}} \right) \right)$	$B_1^2(-e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}})-B_1e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}}$
L_{11a253}	$\left(\left(\frac{B_1^3e^{5e^{2b_1}z_2}-B_1^3e^{2e^{2b_1}z_2+3z_2}+2B_1^3e^{3e^{2b_1}z_2+2z_2}-2B_1^3e^{4e^{2b_1}z_2+z_2}-B_1^2e^{5e^{2b_1}z_2}-B_1^2e^{e^{2b_1}z_2+4z_2}+3B_1^2e^{2e^{2b_1}z_2+3z_2}-5B_1^2e^{3e^{2b_1}z_2+2z_2}+3B_1^2e^{4e^{2b_1}z_2+z_2}}}{B_1^3e^{5e^{2b_1}z_2}-B_1^3e^{2e^{2b_1}z_2+3z_2}+2B_1^3e^{3e^{2b_1}z_2+2z_2}-2B_1^3e^{4e^{2b_1}z_2+z_2}-B_1^2e^{5e^{2b_1}z_2}-B_1^2e^{e^{2b_1}z_2+4z_2}+3B_1^2e^{2e^{2b_1}z_2+3z_2}-5B_1^2e^{3e^{2b_1}z_2+2z_2}+3B_1^2e^{4e^{2b_1}z_2+z_2}} \right) \right)$	$B_1^2(-e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}})-B_1e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}}$
L_{11a254}	$\left(\left(\frac{B_1^3e^{5e^{2b_1}z_2}-B_1^3e^{2e^{2b_1}z_2+3z_2}+2B_1^3e^{3e^{2b_1}z_2+2z_2}-2B_1^3e^{4e^{2b_1}z_2+z_2}-B_1^2e^{5e^{2b_1}z_2}-B_1^2e^{e^{2b_1}z_2+4z_2}+3B_1^2e^{2e^{2b_1}z_2+3z_2}-3B_1^2e^{3e^{2b_1}z_2+2z_2}+3B_1^2e^{4e^{2b_1}z_2+z_2}}}{B_1^3e^{5e^{2b_1}z_2}-B_1^3e^{2e^{2b_1}z_2+3z_2}+2B_1^3e^{3e^{2b_1}z_2+2z_2}-2B_1^3e^{4e^{2b_1}z_2+z_2}-B_1^2e^{5e^{2b_1}z_2}-B_1^2e^{e^{2b_1}z_2+4z_2}+3B_1^2e^{2e^{2b_1}z_2+3z_2}-3B_1^2e^{3e^{2b_1}z_2+2z_2}+3B_1^2e^{4e^{2b_1}z_2+z_2}} \right) \right)$	$B_1^2e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}}+B_1e^{\frac{7}{2}e^{2b_1}z_2+\frac{3z_2}{2}}$
		Continued on next page

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a255}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - 2B_1^2 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - B_2^5 z_1 - B_2^4 z_1 + 2B_2^3 z_1 - B_2^2 z_1 - B_2 z_1 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a256}	$\left(\left(\frac{B_1^2 \left(-e^{2b_1 z_2 + 4z_2} \right) + 2B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 4B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 8B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 7B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{2b_1} z_2}} \right)}{B_1^3 \left(-e^{e^{2b_1} z_2 + 4z_2} \right) + 2B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 4B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 6B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 7B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{2b_1} z_2}} \right)} \right)$	$B_1^2 \left(-e^{\frac{7}{2} e^{2b_1} z_2} \right)$
L_{11a257}	$\left(\left(\frac{B_1^2 \left(-e^{e^{2b_1} z_2 + 4z_2} \right) + 2B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 4B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 6B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 7B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{2b_1} z_2}} \right)}{B_1^3 \left(-e^{e^{2b_1} z_2 + 4z_2} \right) + 2B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 4B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 6B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 7B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{2b_1} z_2}} \right)} \right)$	$B_1^2 e^{\frac{7}{2} e^{2b_1} z_2}$
L_{11a258}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{2B_1^3 e^{2e^{4b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{4b_1} z_2 + 2z_2} + B_1^3 e^{4e^{4b_1} z_2 + z_2} + B_1^2 e^{5e^{4b_1} z_2} + 2B_1^2 e^{e^{4b_1} z_2 + 4z_2} - 5B_1^2 e^{2e^{4b_1} z_2 + 3z_2} + 6B_1^2 e^{3e^{4b_1} z_2 + 2z_2} - 3B_1^2 e^{4e^{4b_1} z_2 + z_2} - 3B_1 e^{e^{4b_1} z_2 + 4z_2} - 3B_1 e^{e^{4b_1} z_2 + 3z_2} + 3B_1 e^{e^{4b_1} z_2 + 2z_2} - 3B_1 e^{e^{4b_1} z_2 + z_2} - 3B_1 e^{e^{4b_1} z_2}} \right)} \right)$	$B_1^2 \left(-e^{\frac{7}{2} e^{2b_1} z_2} \right)$
L_{11a259}	$\left(\left(\frac{B_1^3 \left(-e^{e^{2b_1} z_2 + 4z_2} \right) + B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 2B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 3B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 3B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 3B_1^2 e^{4e^{2b_1} z_2}} \right)}{B_1^3 \left(-e^{e^{2b_1} z_2 + 4z_2} \right) + B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 2B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 3B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 3B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 3B_1^2 e^{4e^{2b_1} z_2}} \right)} \right)$	$B_1^2 \left(-e^{\frac{7}{2} e^{2b_1} z_2} \right)$
L_{11a260}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-2B_1^3 e^{e^{2b_1} z_2 + 2z_2} + 2B_1^3 e^{2e^{2b_1} z_2 + z_2} + 2B_1^2 e^{3e^{2b_1} z_2} + 5B_1^2 e^{e^{2b_1} z_2 + 2z_2} - 6B_1^2 e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3e^{2b_1} z_2} - 6B_1 e^{e^{2b_1} z_2 + 2z_2} + 5B_1 e^{2e^{2b_1} z_2 + z_2} + 2e^{e^{2b_1} z_2 + 2z_2} - 2e^{e^{2b_1} z_2}} \right)} \right)$	
L_{11a261}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - 2B_1^2 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 2B_2^5 z_1 + 3B_2^4 z_1 - 4B_2^3 z_1 + 3B_2^2 z_1 - 2B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a262}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - 2B_1^3 z_2 + 2B_1^2 z_2 - 2B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a263}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}} \right) - B_1 e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}}}{2B_1^3 e^{3e^{-2b_1} z_2} + B_1^3 e^{e^{-2b_1} z_2 + 2z_2} - 3B_1^3 e^{2e^{-2b_1} z_2 + z_2} - 3B_1^2 e^{3e^{-2b_1} z_2} - 4B_1^2 e^{e^{-2b_1} z_2 + 2z_2} + 5B_1^2 e^{2e^{-2b_1} z_2 + z_2} + B_1 e^{3e^{-2b_1} z_2} + 5B_1 e^{e^{-2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{-2b_1} z_2 + z_2} - 4B_1 e^{e^{-2b_1} z_2}} \right)} \right)$	
Continued on next page		

TABLE OF VALUES

Table B.1 – continued from previous page

[illegible]

Continued on next page

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a281}	$\left(\left(\frac{B_1^3(-e^{2b_1 z_2 + 4z_2}) + 3B_1^3 e^{2e^{2b_1 z_2 + 3z_2}} - 3B_1^3 e^{3e^{2b_1 z_2 + 2z_2}} + B_1^3 e^{4e^{2b_1 z_2 + z_2}} + B_1^2 e^{5e^{2b_1 z_2}} + 5B_1^2 e^{e^{2b_1 z_2 + 4z_2}} - 11B_1^2 e^{2e^{2b_1 z_2 + 3z_2}} + 10B_1^2 e^{3e^{2b_1 z_2 + 2z_2}} - 5B_1^2 e^{4e^{2b_1 z_2 + z_2}}}{B_1^3(-e^{2b_1 z_2 + 4z_2}) + 3B_1^3 e^{2e^{2b_1 z_2 + 3z_2}} - 3B_1^3 e^{3e^{2b_1 z_2 + 2z_2}} + B_1^3 e^{4e^{2b_1 z_2 + z_2}} + B_1^2 e^{5e^{2b_1 z_2}} + 5B_1^2 e^{e^{2b_1 z_2 + 4z_2}} - 11B_1^2 e^{2e^{2b_1 z_2 + 3z_2}} + 10B_1^2 e^{3e^{2b_1 z_2 + 2z_2}} - 5B_1^2 e^{4e^{2b_1 z_2 + z_2}}} \right)$	$B_1^2 \left(-e^{\frac{7}{2}e^{2b_1 z_2}} \right)$
L_{11a282}	$\left(\left(\frac{B_1^3(-e^{5e^{-2b_1 z_2}}) + B_1^3 e^{2e^{-2b_1 z_2 + 3z_2}} - 2B_1^3 e^{3e^{-2b_1 z_2 + 2z_2}} + 2B_1^3 e^{4e^{-2b_1 z_2 + z_2}} + B_1^2 e^{5e^{-2b_1 z_2}} + B_1^2 e^{e^{-2b_1 z_2 + 4z_2}} - 5B_1^2 e^{2e^{-2b_1 z_2 + 3z_2}} + 6B_1^2 e^{3e^{-2b_1 z_2 + 2z_2}} - 4B_1^2 e^{4e^{-2b_1 z_2 + z_2}}}{B_1^3(-e^{5e^{-2b_1 z_2}}) + B_1^3 e^{2e^{-2b_1 z_2 + 3z_2}} - 2B_1^3 e^{3e^{-2b_1 z_2 + 2z_2}} + 2B_1^3 e^{4e^{-2b_1 z_2 + z_2}} + B_1^2 e^{5e^{-2b_1 z_2}} + B_1^2 e^{e^{-2b_1 z_2 + 4z_2}} - 5B_1^2 e^{2e^{-2b_1 z_2 + 3z_2}} + 6B_1^2 e^{3e^{-2b_1 z_2 + 2z_2}} - 4B_1^2 e^{4e^{-2b_1 z_2 + z_2}}} \right)$	$B_1^2 \left(-e^{\frac{3}{2}e^{-2b_1 z_2} + \frac{7z_2}{2}} \right)$
L_{11a283}	$\left(\left(\frac{B_1^3 e^{-2b_1 z_2 + 4z_2} - 2B_1^3 e^{2e^{-2b_1 z_2 + 3z_2}} + 2B_1^3 e^{3e^{-2b_1 z_2 + 2z_2}} - B_1^3 e^{4e^{-2b_1 z_2 + z_2}} - B_1^2 e^{5e^{-2b_1 z_2}} - 5B_1^2 e^{e^{-2b_1 z_2 + 4z_2}} + 7B_1^2 e^{2e^{-2b_1 z_2 + 3z_2}} - 7B_1^2 e^{3e^{-2b_1 z_2 + 2z_2}} + 4B_1^2 e^{4e^{-2b_1 z_2 + z_2}}}{B_1^3 e^{-2b_1 z_2 + 4z_2} - 2B_1^3 e^{2e^{-2b_1 z_2 + 3z_2}} + 2B_1^3 e^{3e^{-2b_1 z_2 + 2z_2}} - B_1^3 e^{4e^{-2b_1 z_2 + z_2}} - B_1^2 e^{5e^{-2b_1 z_2}} - 5B_1^2 e^{e^{-2b_1 z_2 + 4z_2}} + 7B_1^2 e^{2e^{-2b_1 z_2 + 3z_2}} - 7B_1^2 e^{3e^{-2b_1 z_2 + 2z_2}} + 4B_1^2 e^{4e^{-2b_1 z_2 + z_2}}} \right)$	$B_1^2 \left(-e^{\frac{3}{2}e^{-2b_1 z_2} + \frac{7z_2}{2}} \right)$
L_{11a284}	$\left(\left(\frac{B_1^2 e^{\frac{1}{2}e^{-2b_1 z_2} + \frac{5z_2}{2}} + B_1 e^{\frac{1}{2}e^{-2b_1 z_2} + \frac{5z_2}{2}}}{2B_1^3 e^{3e^{-2b_1 z_2 + 4z_2}} + B_1^3 e^{e^{-2b_1 z_2 + 2z_2}} - 3B_1^3 e^{2e^{-2b_1 z_2 + z_2}} - 3B_1^2 e^{3e^{-2b_1 z_2}} - 6B_1^2 e^{e^{-2b_1 z_2 + 2z_2}} + 9B_1^2 e^{2e^{-2b_1 z_2 + z_2}} + B_1 e^{3e^{-2b_1 z_2 + 9z_2}} e^{e^{-2b_1 z_2 + 2z_2}} - 6B_1 e^{2e^{-2b_1 z_2 + 2z_2}} + 3B_1 e^{4e^{-2b_1 z_2 + z_2}}} \right)$	$B_1^2 e^{\frac{3}{2}e^{-2b_1 z_2} + \frac{7z_2}{2}} + B_1^2 e^{3e^{-2b_1 z_2 + 2z_2} - 4e^{2b_1 z_2 + 2z_2} + 3B_1^2 e^{4e^{-2b_1 z_2 + z_2}}}$
L_{11a285}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - B_1^3 z_2 - B_1 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - B_2^5 z_1 - 2B_2^4 z_1 + 4B_2^3 z_1 - 2B_2^2 z_1 - B_2 z_1 - B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a286}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - 2B_1^3 z_2 + 2B_1^2 z_2 - 2B_1 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - B_2^5 z_1 - 3B_2^4 z_1 + 6B_2^3 z_1 - 3B_2^2 z_1 - B_2 z_1 - B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a287}	$\left(\left(\frac{B_1^3(-e^{5e^{-2b_1 z_2}}) + B_1^3 e^{2e^{-2b_1 z_2 + 3z_2}} - 2B_1^3 e^{3e^{-2b_1 z_2 + 2z_2}} + 2B_1^3 e^{4e^{-2b_1 z_2 + z_2}} + B_1^2 e^{5e^{-2b_1 z_2}} + 2B_1^2 e^{e^{-2b_1 z_2 + 4z_2}} - 5B_1^2 e^{2e^{-2b_1 z_2 + 3z_2}} + 7B_1^2 e^{3e^{-2b_1 z_2 + 2z_2}} - 4B_1^2 e^{4e^{-2b_1 z_2 + z_2}}}{B_1^3(-e^{5e^{-2b_1 z_2}}) + B_1^3 e^{2e^{-2b_1 z_2 + 3z_2}} - 2B_1^3 e^{3e^{-2b_1 z_2 + 2z_2}} + 2B_1^3 e^{4e^{-2b_1 z_2 + z_2}} + B_1^2 e^{5e^{-2b_1 z_2}} + 2B_1^2 e^{e^{-2b_1 z_2 + 4z_2}} - 5B_1^2 e^{2e^{-2b_1 z_2 + 3z_2}} + 7B_1^2 e^{3e^{-2b_1 z_2 + 2z_2}} - 4B_1^2 e^{4e^{-2b_1 z_2 + z_2}}} \right)$	$B_1^2 e^{\frac{3}{2}e^{-2b_1 z_2} + \frac{7z_2}{2}} + B_1^2 e^{3e^{-2b_1 z_2 + 2z_2} - 4e^{2b_1 z_2 + 2z_2} + 3B_1^2 e^{4e^{-2b_1 z_2 + z_2}}}$
L_{11a288}	$\left(\left(\frac{B_1^3 e^{-2b_1 z_2 + 4z_2} - 2B_1^3 e^{2e^{-2b_1 z_2 + 3z_2}} + 2B_1^3 e^{3e^{-2b_1 z_2 + 2z_2}} - B_1^3 e^{4e^{-2b_1 z_2 + z_2}} - B_1^2 e^{5e^{-2b_1 z_2}} - 3B_1^2 e^{e^{-2b_1 z_2 + 4z_2}} + 6B_1^2 e^{2e^{-2b_1 z_2 + 3z_2}} - 5B_1^2 e^{3e^{-2b_1 z_2 + 2z_2}} + 4B_1^2 e^{4e^{-2b_1 z_2 + z_2}}}{B_1^3 e^{-2b_1 z_2 + 4z_2} - 2B_1^3 e^{2e^{-2b_1 z_2 + 3z_2}} + 2B_1^3 e^{3e^{-2b_1 z_2 + 2z_2}} - B_1^3 e^{4e^{-2b_1 z_2 + z_2}} - B_1^2 e^{5e^{-2b_1 z_2}} - 3B_1^2 e^{e^{-2b_1 z_2 + 4z_2}} + 6B_1^2 e^{2e^{-2b_1 z_2 + 3z_2}} - 5B_1^2 e^{3e^{-2b_1 z_2 + 2z_2}} + 4B_1^2 e^{4e^{-2b_1 z_2 + z_2}}} \right)$	$B_1^2 e^{\frac{3}{2}e^{-2b_1 z_2} + \frac{7z_2}{2}} + B_1^2 e^{3e^{-2b_1 z_2 + 2z_2} - 4e^{2b_1 z_2 + 2z_2} + 3B_1^2 e^{4e^{-2b_1 z_2 + z_2}}}$
L_{11a289}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{2B_2^2 z_1 - 4B_2 z_1 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$	
Continued on next page		

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a290}	$\left(\left(\frac{B_1^3(-e^{2b_1 z_2 + 4z_2}) + 3B_1^3 e^{2e^{2b_1 z_2 + 3z_2}} - 3B_1^3 e^{3e^{2b_1 z_2 + 2z_2}} + B_1^3 e^{4e^{2b_1 z_2 + z_2}} + B_1^2 e^{5e^{2b_1 z_2 + 4z_2}} - 9B_1^2 e^{2e^{2b_1 z_2 + 3z_2}} + 8B_1^2 e^{3e^{2b_1 z_2 + 2z_2}} - 4B_1^2 e^{4e^{2b_1 z_2 + z_2}}}{B_1^3(-e^{2b_1 z_2 + 4z_2}) + 3B_1^3 e^{2e^{2b_1 z_2 + 3z_2}} - 3B_1^3 e^{3e^{2b_1 z_2 + 2z_2}} + B_1^3 e^{4e^{2b_1 z_2 + z_2}} + B_1^2 e^{5e^{2b_1 z_2 + 4z_2}} - 9B_1^2 e^{2e^{2b_1 z_2 + 3z_2}} + 8B_1^2 e^{3e^{2b_1 z_2 + 2z_2}} - 4B_1^2 e^{4e^{2b_1 z_2 + z_2}}} \right) \right)$	$B_1^2 \left(-e^{\frac{7}{2}e^{2b_1 z_2 + 4z_2}} \right)$
L_{11a291}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + B_2^4 z_1 + 2B_2^3 z_1 + B_2^2 z_1 - 3B_2 z_1 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a292}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 + B_1^3 z_2 - 4B_1^2 z_2 + B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - B_2^5 z_1 - B_2 z_1 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a293}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - B_1^3 z_2 - B_1 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - B_2^5 z_1 - 2B_2^4 z_1 + 4B_2^3 z_1 - 2B_2^2 z_1 - B_2 z_1 - B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a294}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2}e^{4b_1 z_2 + \frac{z_2}{2}}} + B_1^2 e^{\frac{9}{2}e^{4b_1 z_2 + \frac{z_2}{2}}} + B_1 e^{\frac{9}{2}e^{4b_1 z_2 + \frac{z_2}{2}}} + e^{\frac{9}{2}e^{4b_1 z_2 + \frac{z_2}{2}}}}{2B_1^3 e^{2e^{4b_1 z_2 + 3z_2}} - 2B_1^3 e^{3e^{4b_1 z_2 + 2z_2}} + B_1^3 e^{4e^{4b_1 z_2 + z_2}} + B_1^2 e^{5e^{4b_1 z_2 + 2z_2}} + 2B_1^2 e^{e^{4b_1 z_2 + 4z_2}} - 4B_1^2 e^{2e^{4b_1 z_2 + 3z_2}} + 5B_1^2 e^{3e^{4b_1 z_2 + 2z_2}} - 3B_1^2 e^{4e^{4b_1 z_2 + z_2}} - 3B_1 e^{5e^{4b_1 z_2 + 2z_2}} + e^{5e^{4b_1 z_2 + 2z_2}}} \right) \right)$	
L_{11a295}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2}e^{4b_1 z_2 + \frac{z_2}{2}}} + B_1^2 e^{\frac{9}{2}e^{4b_1 z_2 + \frac{z_2}{2}}} + B_1 e^{\frac{9}{2}e^{4b_1 z_2 + \frac{z_2}{2}}} + e^{\frac{9}{2}e^{4b_1 z_2 + \frac{z_2}{2}}}}{2B_1^3 e^{e^{4b_1 z_2 + 4z_2}} - 2B_1^3 e^{2e^{4b_1 z_2 + 3z_2}} + B_1^3 e^{3e^{4b_1 z_2 + 2z_2}} - 4B_1^2 e^{e^{4b_1 z_2 + 4z_2}} + 8B_1^2 e^{2e^{4b_1 z_2 + 3z_2}} - 6B_1^2 e^{3e^{4b_1 z_2 + 2z_2}} + 2B_1^2 e^{4e^{4b_1 z_2 + z_2}} + B_1 e^{5e^{4b_1 z_2 + 2z_2}} + e^{5e^{4b_1 z_2 + 2z_2}}} \right) \right)$	
L_{11a296}	$\left(\left(\frac{B_1^2}{2B_1^4 z_2 - B_1^3 z_2 - 2B_1^2 z_2 - B_1 z_2 + B_1^2 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - B_2^5 z_1 + 2B_2^4 z_1 - 4B_2^3 z_1 + 2B_2^2 z_1 - B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a297}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2}e^{2b_1 z_2 + \frac{z_2}{2}}} \right) - B_1 e^{\frac{5}{2}e^{2b_1 z_2 + \frac{z_2}{2}}}}{-3B_1^3 e^{e^{2b_1 z_2 + 2z_2}} + 2B_1^3 e^{2e^{2b_1 z_2 + z_2}} + 2B_1^2 e^{3e^{2b_1 z_2}} + 7B_1^2 e^{e^{2b_1 z_2 + 2z_2}} - 7B_1^2 e^{2e^{2b_1 z_2 + z_2}} - 3B_1 e^{3e^{2b_1 z_2}} - 7B_1 e^{e^{2b_1 z_2 + 2z_2}} + 7B_1 e^{2e^{2b_1 z_2 + z_2}} + e^{3e^{2b_1 z_2}} + 2e^{e^{2b_1 z_2 + 2z_2}}} \right) \right)$	
L_{11a298}	$\left(\left(\frac{B_1^2}{2B_1^4 z_2 - B_1^3 z_2 - 2B_1^2 z_2 - B_1 z_2 + B_1^2 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - B_2^3 z_1 - 2B_2^2 z_1 - B_2 z_1 + B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$	
Continued on next page		

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a299}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{1}{2}e^{-2b_1}z_2 + \frac{5z_2}{2}} \right) - B_1 e^{\frac{1}{2}e^{-2b_1}z_2 + \frac{5z_2}{2}}}{2B_1^3 e^{3e^{-2b_1}z_2} + B_1^3 e^{e^{-2b_1}z_2 + 2z_2} - 3B_1^3 e^{2e^{-2b_1}z_2 + z_2} - 3B_1^2 e^{3e^{-2b_1}z_2} - 5B_1^2 e^{e^{-2b_1}z_2 + 2z_2} + 6B_1^2 e^{2e^{-2b_1}z_2 + z_2} + B_1 e^{3e^{-2b_1}z_2} + 6B_1 e^{e^{-2b_1}z_2 + 2z_2} - 5B_1 e^{2e^{-2b_1}z_2}} \right) \right)$
L_{11a300}	$\left(\left(\frac{B_1^2 e^{\frac{1}{2}e^{-2b_1}z_2 + \frac{5z_2}{2}} + B_1 e^{\frac{1}{2}e^{-2b_1}z_2 + \frac{5z_2}{2}}}{B_1^3 e^{3e^{-2b_1}z_2} + 2B_1^3 e^{e^{-2b_1}z_2 + 2z_2} - 3B_1^3 e^{2e^{-2b_1}z_2 + z_2} - 3B_1^2 e^{3e^{-2b_1}z_2} - 7B_1^2 e^{e^{-2b_1}z_2 + 2z_2} + 9B_1^2 e^{2e^{-2b_1}z_2 + z_2} + 2B_1 e^{3e^{-2b_1}z_2} + 9B_1 e^{e^{-2b_1}z_2 + 2z_2} - 7B_1 e^{2e^{-2b_1}z_2}} \right) \right)$
L_{11a301}	$\left(\left(-\frac{B_1^2}{2B_1^4 z_2 - 4B_1^2 z_2 - B_1^2 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - B_2^4 z_1 - B_2^2 z_1 - B_2^4 + B_2^3 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a302}	$\left(\left(-\frac{B_1^2}{2B_1^4 z_2 - 4B_1^2 z_2 - B_1^2 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 4B_2^2 z_1 - B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a303}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1^3 e^{5e^{2b_1}z_2} - B_1^3 e^{2e^{2b_1}z_2 + 3z_2} + 2B_1^3 e^{3e^{2b_1}z_2 + 2z_2} - 2B_1^3 e^{4e^{2b_1}z_2 + z_2} - B_1^2 e^{5e^{2b_1}z_2} - 2B_1^2 e^{e^{2b_1}z_2 + 4z_2} + 7B_1^2 e^{2e^{2b_1}z_2 + 3z_2} - 8B_1^2 e^{3e^{2b_1}z_2 + 2z_2} + 5B_1^2 e^{4e^{2b_1}z_2 + z_2}} \right) \right)$
L_{11a304}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2}{2}} + e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2}{2}}}{B_1^3 e^{5e^{4b_1}z_2} + 2B_1^3 e^{3e^{4b_1}z_2 + 2z_2} - 2B_1^3 e^{4e^{4b_1}z_2 + z_2} + 3B_1^2 e^{2e^{4b_1}z_2 + 3z_2} - 4B_1^2 e^{3e^{4b_1}z_2 + 2z_2} + 2B_1^2 e^{4e^{4b_1}z_2 + z_2} + 2B_1 e^{e^{4b_1}z_2 + 4z_2} - 4B_1 e^{2e^{4b_1}z_2 + 3z_2} + 3B_1 e^{3e^{4b_1}z_2 + 2z_2}} \right) \right)$
L_{11a305}	$\left(\left(\frac{B_1^2 e^{\frac{1}{2}e^{-2b_1}z_2 + \frac{5z_2}{2}} + B_1 e^{\frac{1}{2}e^{-2b_1}z_2 + \frac{5z_2}{2}}}{2B_1^3 e^{3e^{-2b_1}z_2} + B_1^3 e^{e^{-2b_1}z_2 + 2z_2} - 3B_1^3 e^{2e^{-2b_1}z_2 + z_2} - 3B_1^2 e^{3e^{-2b_1}z_2} - 5B_1^2 e^{e^{-2b_1}z_2 + 2z_2} + 8B_1^2 e^{2e^{-2b_1}z_2 + z_2} + B_1 e^{3e^{-2b_1}z_2} + 8B_1 e^{e^{-2b_1}z_2 + 2z_2} - 5B_1 e^{2e^{-2b_1}z_2}} \right) \right)$
L_{11a306}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2}{2}} + e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2}{2}}}{B_1^3 e^{e^{4b_1}z_2 + 4z_2} - 3B_1^3 e^{2e^{4b_1}z_2 + 3z_2} + 3B_1^3 e^{3e^{4b_1}z_2 + 2z_2} - 4B_1^2 e^{e^{4b_1}z_2 + 4z_2} + 8B_1^2 e^{2e^{4b_1}z_2 + 3z_2} - 7B_1^2 e^{3e^{4b_1}z_2 + 2z_2} + 3B_1^2 e^{4e^{4b_1}z_2 + z_2} + B_1 e^{5e^{4b_1}z_2} + 5B_1 e^{e^{4b_1}z_2 + 4z_2} - 4B_1 e^{2e^{4b_1}z_2 + 3z_2} + 3B_1 e^{3e^{4b_1}z_2 + 2z_2}} \right) \right)$
L_{11a307}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2}e^{4b_1}z_2} + B_1^2 e^{\frac{7}{2}e^{4b_1}z_2} + B_1 e^{\frac{7}{2}e^{4b_1}z_2} + e^{\frac{7}{2}e^{4b_1}z_2}}{3B_1^3 e^{e^{4b_1}z_2 + \frac{5z_2}{2}} - 3B_1^3 e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} + B_1^3 e^{3e^{4b_1}z_2 + \frac{z_2}{2}} - 8B_1^2 e^{e^{4b_1}z_2 + \frac{5z_2}{2}} + 9B_1^2 e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} - 3B_1^2 e^{3e^{4b_1}z_2 + \frac{z_2}{2}} + 9B_1 e^{e^{4b_1}z_2 + \frac{5z_2}{2}} - 8B_1 e^{2e^{4b_1}z_2 + \frac{3z_2}{2}} + 3B_1 e^{3e^{4b_1}z_2 + \frac{z_2}{2}}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11a308}	$\left(\left(\frac{B_1^3(-e^{2b_1 z_2 + 4z_2}) + 2B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 3B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 6B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 6B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{2b_1} z_2}}{B_1^3(-e^{2b_1 z_2 + 4z_2}) + 2B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 3B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 6B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 6B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{2b_1} z_2}} \right) \right)$	$B_1^2 \left(-e^{\frac{7}{2} e^{2b_1} z_2} \right)$
L_{11a309}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - B_1^3 z_2 - B_1^2 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 6B_2^4 z_1 - 8B_2^3 z_1 + 6B_2^2 z_1 - 3B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a310}	$\left(\left(\frac{B_1^2 e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}} + B_1 e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}}}{B_1^3 e^{3e^{-2b_1} z_2} + 2B_1^3 e^{e^{-2b_1} z_2 + 2z_2} - 3B_1^3 e^{2e^{-2b_1} z_2 + z_2} - 3B_1^2 e^{3e^{-2b_1} z_2} - 6B_1^2 e^{e^{-2b_1} z_2 + 2z_2} + 8B_1^2 e^{2e^{-2b_1} z_2 + z_2} + 2B_1 e^{3e^{-2b_1} z_2} + 8B_1 e^{e^{-2b_1} z_2 + 2z_2} - 6B_1 e^{2e^{-2b_1} z_2 + z_2}} \right) \right)$	
L_{11a311}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} + 3B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 3B_1^3 e^{2e^{2b_1} z_2 + z_2} - 3B_1^2 e^{3e^{2b_1} z_2} - 11B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 10B_1^2 e^{2e^{2b_1} z_2 + z_2} + 3B_1 e^{3e^{2b_1} z_2} + 10B_1 e^{e^{2b_1} z_2 + 2z_2} - 11B_1 e^{2e^{2b_1} z_2 + z_2}} \right) \right)$	
L_{11a312}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 + 2B_1^3 z_2 - 6B_1^2 z_2 + 2B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 + 2B_2^3 z_1 - 6B_2^2 z_1 + 2B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a313}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - 2B_1^2 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - B_2^5 z_1 - B_2^4 z_1 + 2B_2^3 z_1 - B_2^2 z_1 - B_2 z_1 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11a314}	$\left(\left(\frac{B_1^3 e^{-2b_1 z_2 + 4z_2} - 2B_1^3 e^{2e^{-2b_1} z_2 + 3z_2} + 2B_1^3 e^{3e^{-2b_1} z_2 + 2z_2} - B_1^3 e^{4e^{-2b_1} z_2 + z_2} - B_1^2 e^{5e^{-2b_1} z_2} - 5B_1^2 e^{e^{-2b_1} z_2 + 4z_2} + 10B_1^2 e^{2e^{-2b_1} z_2 + 3z_2} - 11B_1^2 e^{3e^{-2b_1} z_2 + 2z_2} + 6B_1^2 e^{4e^{-2b_1} z_2}}{B_1^3 e^{-2b_1 z_2 + 4z_2} - 2B_1^3 e^{2e^{-2b_1} z_2 + 3z_2} + 2B_1^3 e^{3e^{-2b_1} z_2 + 2z_2} - B_1^3 e^{4e^{-2b_1} z_2 + z_2} - B_1^2 e^{5e^{-2b_1} z_2} - 5B_1^2 e^{e^{-2b_1} z_2 + 4z_2} + 10B_1^2 e^{2e^{-2b_1} z_2 + 3z_2} - 11B_1^2 e^{3e^{-2b_1} z_2 + 2z_2} + 6B_1^2 e^{4e^{-2b_1} z_2}} \right) \right)$	B_1^2
L_{11a315}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2}}{B_1^3 e^{2e^{4b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{4b_1} z_2 + 2z_2} + 2B_1^3 e^{4e^{4b_1} z_2 + z_2} + B_1^2 e^{5e^{4b_1} z_2} + 2B_1^2 e^{e^{4b_1} z_2 + 4z_2} - 5B_1^2 e^{2e^{4b_1} z_2 + 3z_2} + 7B_1^2 e^{3e^{4b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{4b_1} z_2 + z_2} + B_1 e^{5e^{4b_1} z_2} + e^{5e^{4b_1} z_2}} \right) \right)$	B_1^2
L_{11a316}	$\left(\left(\frac{B_1^3(-e^{2b_1 z_2 + 4z_2}) + 2B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 3B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 5B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 5B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{2b_1} z_2}}{B_1^3(-e^{2b_1 z_2 + 4z_2}) + 2B_1^3 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + B_1^3 e^{4e^{2b_1} z_2 + z_2} + B_1^2 e^{5e^{2b_1} z_2} + 3B_1^2 e^{e^{2b_1} z_2 + 4z_2} - 5B_1^2 e^{2e^{2b_1} z_2 + 3z_2} + 5B_1^2 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{4e^{2b_1} z_2}} \right) \right)$	$B_1^2 \left(-e^{\frac{7}{2} e^{2b_1} z_2} \right)$
Continued on next page		

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a317}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 5B_2^4 z_1 - 6B_2^3 z_1 + 5B_2^2 z_1 - 3B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a318}	$\left(\left(\frac{B_1^2}{2B_1^4 z_2 + B_1^3 z_2 - 6B_1^2 z_2 + B_1 z_2 + B_1^2 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 + B_2^5 z_1 - 4B_2^4 z_1 + 4B_2^3 z_1 - 4B_2^2 z_1 + B_2 z_1 + B_2^4 - B_2^3 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a319}	$\left(\left(\frac{B_1^2}{2B_1^4 z_2 + B_1^3 z_2 - 6B_1^2 z_2 + B_1 z_2 + B_1^2 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 + B_2^3 z_1 - 6B_2^2 z_1 + B_2 z_1 + B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a320}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^3 e^{3e^{2b_1} z_2} + B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 3B_1^3 e^{2e^{2b_1} z_2 + z_2} - 3B_1^2 e^{3e^{2b_1} z_2} - 7B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 10B_1^2 e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3e^{2b_1} z_2} + 10B_1 e^{e^{2b_1} z_2 + 2z_2} - 7B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a321}	$\left(\left(\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 + B_1 + 4z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a322}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 2B_2^5 z_1 + 2B_2^3 z_1 - 2B_2 z_1 + B_2^3 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a323}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a324}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^3 e^{3e^{2b_1} z_2} - 2B_1^3 e^{2e^{2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{2b_1} z_2} - 3B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 6B_1^2 e^{2e^{2b_1} z_2 + z_2} + 6B_1 e^{e^{2b_1} z_2 + 2z_2} - 3B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2} - 2B_1 e^{3z_2 + 2e^{3z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a325}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{B_1^3 e^{5e^{2b_1} z_2} - B_1^3 e^{2e^{2b_1} z_2 + 3z_2} + 2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} - 2B_1^3 e^{4e^{2b_1} z_2 + z_2} - B_1^2 e^{5e^{2b_1} z_2} - 2B_1^2 e^{e^{2b_1} z_2 + 4z_2} + 4B_1^2 e^{2e^{2b_1} z_2 + 3z_2} - 4B_1^2 e^{3e^{2b_1} z_2 + 2z_2} + 4B_1 e^{4e^{2b_1} z_2} - 4B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{e^{2b_1} z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a326}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - 2B_1^3 z_2 + 2B_1^2 z_2 - 2B_1 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 6B_2^3 z_1 + 8B_2^2 z_1 - 6B_2 z_1 - B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a336}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{-3B_1^3 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + 3B_1^3 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + 11B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - 10B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + 4B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} - 10B_1 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + 11B_1 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - 4B_1 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + e^{4b_1 z_2}} \right) \right)$
L_{11a337}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{e^{4b_1} z_2 + 4z_2} - 2B_1^3 e^{2e^{4b_1} z_2 + 3z_2} + 2B_1^3 e^{3e^{4b_1} z_2 + 2z_2} - 5B_1^2 e^{e^{4b_1} z_2 + 4z_2} + 10B_1^2 e^{2e^{4b_1} z_2 + 3z_2} - 9B_1^2 e^{3e^{4b_1} z_2 + 2z_2} + 4B_1^2 e^{4e^{4b_1} z_2 + z_2} + B_1 e^{5e^{4b_1} z_2} + 4B_1 e^{4b_1 z_2}} \right) \right)$
L_{11a338}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1^3 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 4B_1^3 e^{2e^{2b_1} z_2 + z_2} - 3B_1^2 e^{3e^{2b_1} z_2} - 9B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 12B_1^2 e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3e^{2b_1} z_2} + 12B_1 e^{e^{2b_1} z_2 + 2z_2} - 9B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{2b_1 z_2}} \right) \right)$
L_{11a339}	$\left(\left(-\frac{B_1^2}{2B_1^4 z_2 - B_1^3 z_2 - 2B_1^2 z_2 - B_1 z_2 - B_1^2 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{3B_2^4 z_1 - 5B_2^3 z_1 + 4B_2^2 z_1 - 5B_2 z_1 - B_2^3 + B_2^2 - B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a340}	$\left(\left(-\frac{B_1}{7B_1^2 z_2 - 14B_1 z_2 - B_1 + 7z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - B_2^3 z_1 - 2B_2^2 z_1 - B_2 z_1 - B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a341}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1^2 + 3B_1 + z_2 - 1} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a342}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-4B_1^3 e^{e^{2b_1} z_2 + 2z_2} + 2B_1^3 e^{2e^{2b_1} z_2 + z_2} + 2B_1^2 e^{3e^{2b_1} z_2} + 10B_1^2 e^{e^{2b_1} z_2 + 2z_2} - 10B_1^2 e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3e^{2b_1} z_2} - 10B_1 e^{e^{2b_1} z_2 + 2z_2} + 10B_1 e^{2e^{2b_1} z_2 + z_2} + e^{3e^{2b_1} z_2} + 2e^{2b_1 z_2}} \right) \right)$
L_{11a343}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1^2 - B_1 + z_2 + 1} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a344}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2 + 4z_2} + 4B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 4B_1^3 e^{2e^{2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{2b_1} z_2} - 6B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 6B_1^2 e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3e^{2b_1} z_2} + 6B_1 e^{e^{2b_1} z_2 + 2z_2} - 6B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{2b_1 z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a345}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} + 6B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 4B_1^3 e^{2e^{2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{2b_1} z_2} - 6B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 6B_1^2 e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3e^{2b_1} z_2} + 6B_1 e^{e^{2b_1} z_2 + 2z_2} - 6B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{3e^{2b_1} z_2}} \right) \right.$
L_{11a346}	$\left. \left(\frac{B_1^2}{2B_1^4 z_2 - 11B_1^3 z_2 + 18B_1^2 z_2 - 11B_1 z_2 - B_1^3 + 3B_1^2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 5B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 - B_2^3 + B_2^2 - B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a347}	$\left(\left(-\frac{B_1^2}{3B_1^4 z_2 - 8B_1^3 z_2 + 10B_1^2 z_2 - 8B_1 z_2 - B_1^3 + B_1^2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{3B_2^4 z_1 - 8B_2^3 z_1 + 10B_2^2 z_1 - 8B_2 z_1 - B_2^3 + B_2^2 - B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a348}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^3 e^{3e^{2b_1} z_2} + 4B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 5B_1^3 e^{2e^{2b_1} z_2 + z_2} - 5B_1^2 e^{3e^{2b_1} z_2} - 12B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 12B_1^2 e^{2e^{2b_1} z_2 + z_2} + 4B_1 e^{3e^{2b_1} z_2} + 12B_1 e^{e^{2b_1} z_2 + 2z_2} - 12B_1 e^{2e^{2b_1} z_2 + z_2}} \right) \right.$
L_{11a349}	$\left. \left(-\frac{B_1^2}{B_1^4 z_2 - B_1^3 z_2 - B_1 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - B_2^3 z_1 - B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a350}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} + 4B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 3B_1^3 e^{2e^{2b_1} z_2 + z_2} - 3B_1^2 e^{3e^{2b_1} z_2} - 8B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 8B_1^2 e^{2e^{2b_1} z_2 + z_2} + 4B_1 e^{3e^{2b_1} z_2} + 8B_1 e^{e^{2b_1} z_2 + 2z_2} - 8B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{3e^{2b_1} z_2}} \right) \right.$
L_{11a351}	$\left. \left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - B_2^3 z_1 - B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a352}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^3 e^{3e^{2b_1} z_2} + 4B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 5B_1^3 e^{2e^{2b_1} z_2 + z_2} - 4B_1^2 e^{3e^{2b_1} z_2} - 11B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 13B_1^2 e^{2e^{2b_1} z_2 + z_2} + 3B_1 e^{3e^{2b_1} z_2} + 13B_1 e^{e^{2b_1} z_2 + 2z_2} - 11B_1 e^{2e^{2b_1} z_2 + z_2}} \right) \right.$
L_{11a353}	$\left. \left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 5B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 - B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11a354}	$\left(\left(\frac{B_1}{5B_1^2 z_2 - 10B_1 z_2 + B_1 + 5z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 + B_2^3 z_1 - 4B_2^2 z_1 + B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a355}	$\left(\left(\frac{B_1^3 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^4 \left(-e^{2e^{3b_1}z_2 + 2z_2} \right) + B_1^4 e^{3e^{3b_1}z_2 + z_2} + B_1^3 e^{4e^{3b_1}z_2} - B_1^3 e^{e^{3b_1}z_2 + 3z_2} + 2B_1^3 e^{2e^{3b_1}z_2 + 2z_2} - 3B_1^3 e^{3e^{3b_1}z_2 + z_2} - B_1^2 e^{4e^{3b_1}z_2} + 2B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 3B_1^2 e^{2e^{3b_1}z_2 + z_2}} \right) \right)$
L_{11a356}	$\left(\left(-\frac{B_1^2 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^4 \left(-e^{2e^{b_1}z_2 + 2z_2} \right) + B_1^4 e^{3e^{b_1}z_2 + z_2} + B_1^3 e^{4e^{b_1}z_2} - 2B_1^3 e^{e^{b_1}z_2 + 3z_2} + 4B_1^3 e^{2e^{b_1}z_2 + 2z_2} - 3B_1^3 e^{3e^{b_1}z_2 + z_2} - B_1^2 e^{4e^{b_1}z_2} + 4B_1^2 e^{e^{b_1}z_2 + 3z_2} - 7B_1^2 e^{2e^{b_1}z_2 + 2z_2} + 4B_1^2 e^{e^{b_1}z_2 + z_2}} \right) \right)$
L_{11a357}	$\left(\left(\frac{B_1^3 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^4 \left(-e^{e^{3b_1}z_2 + 3z_2} \right) + B_1^4 e^{2e^{3b_1}z_2 + 2z_2} + 3B_1^3 e^{e^{3b_1}z_2 + 3z_2} - 5B_1^3 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1^3 e^{3e^{3b_1}z_2 + z_2} + B_1^2 e^{4e^{3b_1}z_2} - 5B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 7B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 5B_1^2 e^{e^{3b_1}z_2 + z_2}} \right) \right)$
L_{11a358}	$\left(\left(-\frac{B_1^2 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^4 e^{2e^{-b_1}z_2 + 2z_2} - B_1^4 e^{3e^{-b_1}z_2 + z_2} - B_1^3 e^{4e^{-b_1}z_2} + B_1^3 e^{e^{-b_1}z_2 + 3z_2} - 3B_1^3 e^{2e^{-b_1}z_2 + 2z_2} + 3B_1^3 e^{3e^{-b_1}z_2 + z_2} + B_1^2 e^{4e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1^2 e^{e^{-b_1}z_2 + z_2}} \right) \right)$
L_{11a359}	$\left(\left(-\frac{B_1^2 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^4 e^{e^{-b_1}z_2 + 3z_2} - B_1^4 e^{2e^{-b_1}z_2 + 2z_2} - 4B_1^3 e^{e^{-b_1}z_2 + 3z_2} + 5B_1^3 e^{2e^{-b_1}z_2 + 2z_2} - 2B_1^3 e^{3e^{-b_1}z_2 + z_2} - B_1^2 e^{4e^{-b_1}z_2} + 5B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 9B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 5B_1^2 e^{e^{-b_1}z_2 + z_2}} \right) \right)$
L_{11a360}	$\left(\left(\frac{B_1^3 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}} + B_1^2 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}} + B_1 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}}}{B_1^4 \left(-e^{4e^{-3b_1}z_2} \right) + B_1^4 e^{3e^{-3b_1}z_2 + z_2} + B_1^3 e^{4e^{-3b_1}z_2} + B_1^3 e^{2e^{-3b_1}z_2 + 2z_2} - B_1^3 e^{3e^{-3b_1}z_2 + z_2} + B_1^2 e^{e^{-3b_1}z_2 + 3z_2} - B_1^2 e^{2e^{-3b_1}z_2 + 2z_2} + B_1^2 e^{3e^{-3b_1}z_2 + z_2} - B_1 e^{4e^{-3b_1}z_2} - B_1 e^{e^{-3b_1}z_2 + 3z_2} + 7B_1 e^{2e^{-3b_1}z_2 + 2z_2} - 5B_1 e^{e^{-3b_1}z_2 + z_2}} \right) \right)$
L_{11a361}	$\left(\left(\frac{B_1^3 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}} + B_1^2 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}} + B_1 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}}}{B_1^4 e^{2e^{-3b_1}z_2 + 2z_2} - B_1^4 e^{3e^{-3b_1}z_2 + z_2} - B_1^3 e^{4e^{-3b_1}z_2} + 2B_1^3 e^{e^{-3b_1}z_2 + 3z_2} - 4B_1^3 e^{2e^{-3b_1}z_2 + 2z_2} + 4B_1^3 e^{3e^{-3b_1}z_2 + z_2} + B_1^2 e^{4e^{-3b_1}z_2} - 4B_1^2 e^{e^{-3b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{-3b_1}z_2 + 2z_2} - 5B_1^2 e^{e^{-3b_1}z_2 + z_2}} \right) \right)$
L_{11a362}	$\left(\left(\frac{B_1^3 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}} + B_1^2 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}} + B_1 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}}}{B_1^4 e^{2e^{-3b_1}z_2 + 2z_2} - B_1^4 e^{3e^{-3b_1}z_2 + z_2} - B_1^3 e^{4e^{-3b_1}z_2} + B_1^3 e^{e^{-3b_1}z_2 + 3z_2} - 3B_1^3 e^{2e^{-3b_1}z_2 + 2z_2} + 4B_1^3 e^{3e^{-3b_1}z_2 + z_2} + B_1^2 e^{4e^{-3b_1}z_2} - 3B_1^2 e^{e^{-3b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{-3b_1}z_2 + 2z_2} - 5B_1^2 e^{e^{-3b_1}z_2 + z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a363}	$\left(\left(\frac{B_1^3 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}} + B_1^2 e^{\frac{1}{2}e^{-3b_1}z_2 + \frac{7z_2}{2}}}{B_1^4 e^{e^{-3b_1}z_2 + 3z_2} - B_1^4 e^{2e^{-3b_1}z_2 + 2z_2} - 4B_1^3 e^{e^{-3b_1}z_2 + 3z_2} + 6B_1^3 e^{2e^{-3b_1}z_2 + 2z_2} - 2B_1^3 e^{3e^{-3b_1}z_2 + z_2} - B_1^2 e^{4e^{-3b_1}z_2 + 6B_1^2 e^{-3b_1}z_2 + 3z_2} - 9B_1^2 e^{2e^{-3b_1}z_2 + 2z_2} + 6B_1^2 e^{3e^{-3b_1}z_2 + z_2}} \right) \right)$
L_{11a364}	$\left(\left(\frac{B_1^2 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^4 (-e^{4e^{-b_1}z_2}) + B_1^4 e^{3e^{-b_1}z_2 + z_2} + B_1^3 e^{4e^{-b_1}z_2} + 2B_1^3 e^{2e^{-b_1}z_2 + 2z_2} - 3B_1^3 e^{3e^{-b_1}z_2 + z_2} + 2B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 3B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 2B_1^2 e^{3e^{-b_1}z_2 + z_2} - 3B_1 e^{e^{-b_1}z_2 + 2z_2} - 3B_1 e^{e^{-b_1}z_2 + z_2}} \right) \right)$
L_{11a365}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^4 e^{4e^{b_1}z_2} - B_1^4 e^{3e^{b_1}z_2 + z_2} - B_1^3 e^{4e^{b_1}z_2} - 2B_1^3 e^{2e^{b_1}z_2 + 2z_2} + 3B_1^3 e^{3e^{b_1}z_2 + z_2} - 2B_1^2 e^{e^{b_1}z_2 + 3z_2} + 5B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1}z_2 + z_2} + 3B_1 e^{e^{b_1}z_2 + 3z_2} - 2B_1 e^{e^{b_1}z_2 + z_2}} \right) \right)$
L_{11a366}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^4 (-e^{2e^{b_1}z_2 + 2z_2}) + B_1^4 e^{3e^{b_1}z_2 + z_2} + B_1^3 e^{4e^{b_1}z_2} - 2B_1^3 e^{e^{b_1}z_2 + 3z_2} + 4B_1^3 e^{2e^{b_1}z_2 + 2z_2} - 3B_1^3 e^{3e^{b_1}z_2 + z_2} - B_1^2 e^{4e^{b_1}z_2} + 4B_1^2 e^{e^{b_1}z_2 + 3z_2} - 5B_1^2 e^{2e^{b_1}z_2 + 2z_2} + 4B_1^2 e^{3e^{b_1}z_2 + z_2}} \right) \right)$
L_{11a367}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^4 e^{4e^{3b_1}z_2} - B_1^4 e^{3e^{3b_1}z_2 + z_2} - B_1^3 e^{4e^{3b_1}z_2} - B_1^3 e^{2e^{3b_1}z_2 + 2z_2} + 3B_1^3 e^{3e^{3b_1}z_2 + z_2} - B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - B_1^2 e^{3e^{3b_1}z_2 + z_2} + 3B_1 e^{e^{3b_1}z_2 + 3z_2} - B_1 e^{e^{3b_1}z_2 + z_2}} \right) \right)$
L_{11a368}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^4 (-e^{2e^{3b_1}z_2 + 2z_2}) + B_1^4 e^{3e^{3b_1}z_2 + z_2} + B_1^3 e^{4e^{3b_1}z_2} - B_1^3 e^{e^{3b_1}z_2 + 3z_2} + 4B_1^3 e^{2e^{3b_1}z_2 + 2z_2} - 3B_1^3 e^{3e^{3b_1}z_2 + z_2} - B_1^2 e^{4e^{3b_1}z_2} + 4B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 5B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 4B_1^2 e^{3e^{3b_1}z_2 + z_2}} \right) \right)$
L_{11a369}	$\left(\left(-\frac{B_1^2 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^4 (-e^{e^{b_1}z_2 + 3z_2}) + B_1^4 e^{2e^{b_1}z_2 + 2z_2} + 2B_1^3 e^{e^{b_1}z_2 + 3z_2} - 3B_1^3 e^{2e^{b_1}z_2 + 2z_2} + 2B_1^3 e^{3e^{b_1}z_2 + z_2} + B_1^2 e^{4e^{b_1}z_2} - 3B_1^2 e^{e^{b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1}z_2 + z_2}} \right) \right)$
L_{11a370}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^4 (-e^{e^{3b_1}z_2 + 3z_2}) + B_1^4 e^{2e^{3b_1}z_2 + 2z_2} + 5B_1^3 e^{e^{3b_1}z_2 + 3z_2} - 5B_1^3 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1^3 e^{3e^{3b_1}z_2 + z_2} + B_1^2 e^{4e^{3b_1}z_2} - 5B_1^2 e^{e^{3b_1}z_2 + 3z_2} + 9B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 5B_1^2 e^{3e^{3b_1}z_2 + z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a371}	$\left(\left(\frac{B_1^3 e^{\frac{1}{2}e^{-3b_1 z_2 + \frac{7z_2}{2}}} + B_1^2 e^{\frac{1}{2}e^{-3b_1 z_2 + \frac{7z_2}{2}}} + B_1^4 e^{e^{-3b_1 z_2 + 3z_2}} - B_1^4 e^{2e^{-3b_1 z_2 + 2z_2}} - 2B_1^3 e^{e^{-3b_1 z_2 + 3z_2} + 3B_1^3 e^{2e^{-3b_1 z_2 + 2z_2}} - B_1^3 e^{3e^{-3b_1 z_2 + z_2}} - B_1^2 e^{4e^{-3b_1 z_2 + 3z_2}} - 3B_1^2 e^{2e^{-3b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{-3b_1 z_2 + 3z_2}} - B_1^2 e^{2e^{-3b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{-3b_1 z_2 + 3z_2}}} \right)}{B_1^4 e^{e^{-3b_1 z_2 + 3z_2}} - B_1^4 e^{2e^{-3b_1 z_2 + 2z_2}} - 2B_1^3 e^{e^{-3b_1 z_2 + 3z_2} + 3B_1^3 e^{2e^{-3b_1 z_2 + 2z_2}} - B_1^3 e^{3e^{-3b_1 z_2 + z_2}} - B_1^2 e^{4e^{-3b_1 z_2 + 3z_2}} - 3B_1^2 e^{2e^{-3b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{-3b_1 z_2 + 3z_2}}} \right)} \right)$
L_{11a372}	$\left(\left(-\frac{B_1^2 e^{\frac{5}{2}e^{b_1 z_2 + \frac{3z_2}{2}}}}{B_1^4 \left(-e^{2e^{b_1 z_2 + 2z_2}} \right) + B_1^4 e^{3e^{b_1 z_2 + z_2}} + B_1^3 e^{4e^{b_1 z_2}} - B_1^3 e^{e^{b_1 z_2 + 3z_2}} + B_1^3 e^{2e^{b_1 z_2 + 2z_2}} - B_1^3 e^{3e^{b_1 z_2 + z_2}} - B_1^2 e^{4e^{b_1 z_2 + 3z_2}} + B_1^2 e^{e^{b_1 z_2 + 3z_2}} - B_1^2 e^{2e^{b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{b_1 z_2 + 3z_2}}} \right)} \right)$
L_{11a373}	$\left(\left(-\frac{B_1^2 e^{\frac{5}{2}e^{b_1 z_2 + \frac{3z_2}{2}}}}{B_1^4 e^{e^{b_1 z_2 + 3z_2}} - 2B_1^4 e^{2e^{b_1 z_2 + 2z_2}} + B_1^4 e^{3e^{b_1 z_2 + z_2}} + B_1^3 e^{4e^{b_1 z_2}} - 4B_1^3 e^{e^{b_1 z_2 + 3z_2}} + 7B_1^3 e^{2e^{b_1 z_2 + 2z_2}} - 4B_1^3 e^{3e^{b_1 z_2 + z_2}} - B_1^2 e^{4e^{b_1 z_2 + 3z_2}} + 6B_1^2 e^{e^{b_1 z_2 + 3z_2}} - 11B_1^2 e^{2e^{b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{b_1 z_2 + 3z_2}}} \right)} \right)$
L_{11a374}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2}e^{3b_1 z_2 + \frac{z_2}{2}}} + B_1^2 e^{\frac{7}{2}e^{3b_1 z_2 + \frac{z_2}{2}}} + B_1^2 e^{\frac{7}{2}e^{3b_1 z_2 + \frac{z_2}{2}}}}{B_1^4 e^{4e^{3b_1 z_2}} - B_1^4 e^{3e^{3b_1 z_2 + z_2}} - B_1^3 e^{4e^{3b_1 z_2}} - 2B_1^3 e^{2e^{3b_1 z_2 + 2z_2}} + 4B_1^3 e^{3e^{3b_1 z_2 + z_2}} - 2B_1^2 e^{e^{3b_1 z_2 + 3z_2}} + 5B_1^2 e^{2e^{3b_1 z_2 + 2z_2}} - 2B_1^2 e^{3e^{3b_1 z_2 + z_2}} + 4B_1^2 e^{e^{3b_1 z_2 + 3z_2}} - B_1^2 e^{2e^{3b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{3b_1 z_2 + 3z_2}}} \right)} \right)$
L_{11a375}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{b_1 z_2 + \frac{3z_2}{2}}}}{B_1^4 e^{4e^{b_1 z_2}} + B_1^4 e^{2e^{b_1 z_2 + 2z_2}} - 2B_1^4 e^{3e^{b_1 z_2 + z_2}} - B_1^3 e^{4e^{b_1 z_2}} + B_1^3 e^{e^{b_1 z_2 + 3z_2}} - 6B_1^3 e^{2e^{b_1 z_2 + 2z_2}} + 6B_1^3 e^{3e^{b_1 z_2 + z_2}} - 5B_1^2 e^{e^{b_1 z_2 + 3z_2}} + 11B_1^2 e^{2e^{b_1 z_2 + 2z_2}} - 5B_1^2 e^{3e^{b_1 z_2 + z_2}} - B_1^2 e^{2e^{b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{b_1 z_2 + 3z_2}}} \right)} \right)$
L_{11a376}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2}e^{3b_1 z_2 + \frac{z_2}{2}}} + B_1^2 e^{\frac{7}{2}e^{3b_1 z_2 + \frac{z_2}{2}}} + B_1^2 e^{\frac{7}{2}e^{3b_1 z_2 + \frac{z_2}{2}}}}{B_1^4 \left(-e^{2e^{3b_1 z_2 + 2z_2}} \right) + B_1^4 e^{3e^{3b_1 z_2 + z_2}} + B_1^3 e^{4e^{3b_1 z_2}} - 2B_1^3 e^{e^{3b_1 z_2 + 3z_2}} + 5B_1^3 e^{2e^{3b_1 z_2 + 2z_2}} - 3B_1^3 e^{3e^{3b_1 z_2 + z_2}} - B_1^2 e^{4e^{3b_1 z_2 + 3z_2}} + 5B_1^2 e^{e^{3b_1 z_2 + 3z_2}} + 3z_2 - 7B_1^2 e^{2e^{3b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{3b_1 z_2 + 3z_2}}} \right)} \right)$
L_{11a377}	$\left(\left(-\frac{B_1^2 e^{\frac{3}{2}e^{-b_1 z_2 + \frac{5z_2}{2}}}}{B_1^4 e^{4e^{-b_1 z_2}} - B_1^4 e^{3e^{-b_1 z_2 + z_2}} - 2B_1^3 e^{4e^{-b_1 z_2}} + B_1^3 e^{e^{-b_1 z_2 + 3z_2}} - 4B_1^3 e^{2e^{-b_1 z_2 + 2z_2}} + 5B_1^3 e^{3e^{-b_1 z_2 + z_2}} + B_1^2 e^{4e^{-b_1 z_2}} - 5B_1^2 e^{e^{-b_1 z_2 + 3z_2}} + 7B_1^2 e^{2e^{-b_1 z_2 + 2z_2}} - 5B_1^2 e^{3e^{-b_1 z_2 + z_2}} - B_1^2 e^{2e^{-b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{-b_1 z_2 + 3z_2}}} \right)} \right)$
L_{11a378}	$\left(\left(\frac{B_1^2 e^{\frac{3}{2}e^{-b_1 z_2 + \frac{5z_2}{2}}}}{B_1^4 e^{e^{-b_1 z_2 + 3z_2}} - B_1^4 e^{2e^{-b_1 z_2 + 2z_2}} - 3B_1^3 e^{e^{-b_1 z_2 + 3z_2}} + 4B_1^3 e^{2e^{-b_1 z_2 + 2z_2}} - 2B_1^3 e^{3e^{-b_1 z_2 + z_2}} - B_1^2 e^{4e^{-b_1 z_2 + 3z_2}} + 4B_1^2 e^{e^{-b_1 z_2 + 3z_2}} - 5B_1^2 e^{2e^{-b_1 z_2 + 2z_2}} + 4B_1^2 e^{3e^{-b_1 z_2 + z_2}} - B_1^2 e^{2e^{-b_1 z_2 + 2z_2} + 3B_1^2 e^{e^{-b_1 z_2 + 3z_2}}} \right)} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11a379}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^4 e^{e^{b_1} z_2 + 3z_2} - B_1^4 e^{2e^{b_1} z_2 + 2z_2} + B_1^3 e^{4e^{b_1} z_2} - 4B_1^3 e^{e^{b_1} z_2 + 3z_2} + 6B_1^3 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^3 e^{3e^{b_1} z_2 + z_2} - 2B_1^2 e^{4e^{b_1} z_2} + 7B_1^2 e^{e^{b_1} z_2 + 3z_2} - 9B_1^2 e^{2e^{b_1} z_2 + 2z_2} + 7B_1^2 e^{e^{b_1} z_2 + z_2}} \right) \right)$
L_{11a380}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^4 e^{e^{b_1} z_2 + 3z_2} - B_1^4 e^{2e^{b_1} z_2 + 2z_2} + B_1^3 e^{4e^{b_1} z_2} - 3B_1^3 e^{e^{b_1} z_2 + 3z_2} + 5B_1^3 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^3 e^{3e^{b_1} z_2 + z_2} - 2B_1^2 e^{4e^{b_1} z_2} + 6B_1^2 e^{e^{b_1} z_2 + 3z_2} - 7B_1^2 e^{2e^{b_1} z_2 + 2z_2} + 6B_1^2 e^{e^{b_1} z_2 + z_2}} \right) \right)$
L_{11a381}	$\left(\left(-\frac{B_1^2 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{3z_2}{2}}}{B_1^4 e^{e^{-b_1} z_2 + 3z_2} - B_1^4 e^{2e^{-b_1} z_2 + 2z_2} + B_1^3 e^{4e^{-b_1} z_2} - 5B_1^3 e^{e^{-b_1} z_2 + 3z_2} + 8B_1^3 e^{2e^{-b_1} z_2 + 2z_2} - 5B_1^3 e^{3e^{-b_1} z_2 + z_2} - 2B_1^2 e^{4e^{-b_1} z_2} + 9B_1^2 e^{e^{-b_1} z_2 + 3z_2} - 15B_1^2 e^{2e^{-b_1} z_2 + 2z_2} + 10B_1^2 e^{e^{-b_1} z_2 + z_2}} \right) \right)$
L_{11a382}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^4 e^{4e^{b_1} z_2} + B_1^4 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^4 e^{3e^{b_1} z_2 + z_2} - B_1^3 e^{4e^{b_1} z_2} + B_1^3 e^{e^{b_1} z_2 + 3z_2} - 5B_1^3 e^{2e^{b_1} z_2 + 2z_2} + 5B_1^3 e^{3e^{b_1} z_2 + z_2} - 4B_1^2 e^{4e^{b_1} z_2} + 9B_1^2 e^{e^{b_1} z_2 + 3z_2} - 13B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 4B_1^2 e^{e^{b_1} z_2 + z_2}} \right) \right)$
L_{11a383}	$\left(\left(-\frac{B_1^2 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^4 (-e^{4e^{-b_1} z_2}) + B_1^4 e^{3e^{-b_1} z_2 + z_2} + B_1^3 e^{4e^{-b_1} z_2} + 3B_1^3 e^{2e^{-b_1} z_2 + 2z_2} - 4B_1^3 e^{3e^{-b_1} z_2 + z_2} + 3B_1^2 e^{4e^{-b_1} z_2} + 3B_1^2 e^{e^{-b_1} z_2 + 3z_2} - 7B_1^2 e^{2e^{-b_1} z_2 + 2z_2} + 3B_1^2 e^{e^{-b_1} z_2 + z_2} - 4B_1 e^{e^{-b_1} z_2}} \right) \right)$
L_{11a384}	$\left(\left(\frac{B_1^3 e^{\frac{1}{2} e^{-3b_1} z_2 + \frac{7z_2}{2}} + B_1^2 e^{\frac{1}{2} e^{-3b_1} z_2 + \frac{7z_2}{2}}}{B_1^4 e^{e^{-3b_1} z_2 + 3z_2} - B_1^4 e^{2e^{-3b_1} z_2 + 2z_2} - 5B_1^3 e^{e^{-3b_1} z_2 + 3z_2} + 8B_1^3 e^{2e^{-3b_1} z_2 + 2z_2} - 3B_1^3 e^{3e^{-3b_1} z_2 + z_2} - B_1^2 e^{4e^{-3b_1} z_2} + 8B_1^2 e^{e^{-3b_1} z_2 + 3z_2} - 13B_1^2 e^{2e^{-3b_1} z_2 + 2z_2} + 8B_1^2 e^{e^{-3b_1} z_2 + z_2}} \right) \right)$
L_{11n1}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} + 2B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 4e^{2e^{2b_1} z_2 + 4z_2} + 2e^{2e^{2b_1} z_2 + 3z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^3 e^{2e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2 e^{\frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n2}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 6B_2^3 z_1 + 10B_2^2 z_1 - 6B_2 z_1 + B_2^4 - 5B_2^3 + 7B_2^2 - 5B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n3}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 5B_2^3 z_1 + 8B_2^2 z_1 - 5B_2 z_1 + B_2^4 - 5B_2^3 + 7B_2^2 - 5B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n4}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 - 2B_1 e^{2e^{2b_1} z_2 + 3z_2}} + 6B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 6e^{2e^{2b_1} z_2 + 3z_2} - 2e^{3e^{2b_1} z_2 + 2z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n5}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 + B_2^4 - 5B_2^3 + 9B_2^2 - 5B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n6}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 5B_2^3 z_1 + 8B_2^2 z_1 - 5B_2 z_1 - B_2^4 + 5B_2^3 - 9B_2^2 + 5B_2 + z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n7}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 - 2B_1 e^{2e^{2b_1} z_2 + 3z_2}} + 4B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 4e^{2e^{2b_1} z_2 + 3z_2} - 2e^{3e^{2b_1} z_2 + 2z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n8}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 + B_2^4 - 5B_2^3 + 7B_2^2 - 5B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n9}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 - B_2^4 + 5B_2^3 - 7B_2^2 + 5B_2 + z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n10}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{2B_1 e^{5e^{2b_1} z_2 - B_1 e^{2e^{2b_1} z_2 + 3z_2}} + 2B_1 e^{3e^{2b_1} z_2 + 2z_2} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 4z_2} + 2e^{2e^{2b_1} z_2 + 3z_2} - e^{3e^{2b_1} z_2 + 2z_2} + 2e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{2B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n11}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 5B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 + 2B_2^4 - 4B_2^3 + 5B_2^2 - 4B_2 + 2z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n12}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + 2B_2^4 - 4B_2^3 + 5B_2^2 - 4B_2 + z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n13}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{3B_1 e^{3e^{2b_1} z_2 - 2B_1 e^{2e^{2b_1} z_2 + z_2}} - 2e^{e^{2b_1} z_2 + 2z_2} + 3e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1 + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}}{3B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2 e^{\frac{3z_1}{2}} + 3e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n14}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{3B_2^2 z_1 - 6B_2 z_1 + 3B_2^2 - 5B_2 + 3z_1 + 3} \right)_{(\{2\}, \{1\})} \right)$
L_{11n15}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{B_2^2 z_1 - 2B_2 z_1 + 3B_2^2 - 5B_2 + z_1 + 3} \right)_{(\{2\}, \{1\})} \right)$
L_{11n16}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{2B_1 e^{5e^{2b_1} z_2 + B_1 e^{3e^{2b_1} z_2 + 2z_2}} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 4z_2} + e^{2e^{2b_1} z_2 + 3z_2} + 2e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{3}{2} e^{2b_2} z_1} + B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{2B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + e^{5z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n17}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 6B_2^3 z_1 + 8B_2^2 z_1 - 6B_2 z_1 + 2B_2^4 - 4B_2^3 + 5B_2^2 - 4B_2 + 2z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n18}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 + 2B_2^4 - 4B_2^3 + 5B_2^2 - 4B_2 + 2z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n19}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{2B_1 e^{5e^{2b_1} z_2 - B_1 e^{4e^{2b_1} z_2 + z_2}} - e^{e^{2b_1} z_2 + 4z_2} + 2e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{3}{2} e^{2b_2} z_1} + B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{2B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^3 e^{\frac{3z_1}{2}} + 2e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n20}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 5B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 + 2B_2^4 - 3B_2^3 + 3B_2^2 - 3B_2 + 2z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n21}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 + 2B_2^4 - 3B_2^3 + 3B_2^2 - 3B_2 + 2z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n22}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2 + 4B_1 e^{3e^{2b_1} z_2 + 2z_2}} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 4e^{2e^{2b_1} z_2 + 3z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{3}{2} e^{2b_2} z_1} + B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 4B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 4B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + e^{5z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n23}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 6B_2^3 z_1 + 10B_2^2 z_1 - 6B_2 z_1 + B_2^4 - 5B_2^3 + 9B_2^2 - 5B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n24}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^4 - 5B_2^3 + 9B_2^2 - 5B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n25}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 9B_2^3 z_1 + 14B_2^2 z_1 - 9B_2 z_1 + 2B_2^3 - 5B_2^2 + 2B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n26}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{4B_1 e^{3e^{2b_1} z_2 + B_1 e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 4e^{e^{2b_1} z_2 + 2z_2} + e^{2e^{2b_1} z_2 + z_2} + 4e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{4B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2 e^{2b_2 z_1 + \frac{z_1}{2}} + B_2^2 e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n27}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{3B_2^2 z_1 - 6B_2 z_1 + 4B_2^2 - 7B_2 + 3z_1 + 4} \right)_{(\{2\}, \{1\})} \right)$
L_{11n28}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 3B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + 4B_2^3 - 7B_2^2 + 4B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n29}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{4B_1 e^{3e^{2b_1} z_2 + 2B_1 e^{2b_1} z_2 + 2z_2} - 5B_1 e^{2e^{2b_1} z_2 + z_2} - 5e^{e^{2b_1} z_2 + 2z_2} + 2e^{2e^{2b_1} z_2 + z_2} + 4e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{4B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 5B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n30}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2}{2B_2^2 z_1 - 4B_2 z_1 + 4B_2^2 - 7B_2 + 2z_1 + 4} \right)_{(\{2\}, \{1\})} \right)$
L_{11n31}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 + 4B_2^3 - 7B_2^2 + 4B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n32}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2^2}{2}}}{B_1 e^{5e^{2b_1} z_2 - B_1 e^{2e^{2b_1} z_2 + 3z_2} + 5B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 5e^{2e^{2b_1} z_2 + 3z_2} - e^{3e^{2b_1} z_2 + 2z_2} + e^{5z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{3}{2} e^{2b_2} z_1} + B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 6B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n33}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^3 z_1 - 2B_2^2 z_1 + B_2 z_1 + B_2^4 - 5B_2^3 + 9B_2^2 - 5B_2 + 1} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n44}	$\left(\left(\frac{B_1 e^{\frac{9}{2} e^{2b_1} z_2 + \frac{5z_2}{2}} + e^{\frac{9}{2} e^{2b_1} z_2 + \frac{5z_2}{2}}}{B_1 e^{7e^{2b_1} z_2} + e^{7z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{3}{2} e^{2b_2} z_1} + B_2^3 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^7 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + e^{\frac{3z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n45}	$\left(\left(\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 + B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 2B_2^5 z_1 + 2B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 + B_2^6 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n46}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 4B_2^4 z_1 - 4B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^6 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n47}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{2B_1 e^{5e^{2b_1} z_2} + B_1 e^{e^{2b_1} z_2 + 4z_2} - 2B_1 e^{2e^{2b_1} z_2 + 3z_2} + 2B_1 e^{3e^{2b_1} z_2 + 2z_2} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 4z_2} + 2e^{2e^{2b_1} z_2 + 3z_2} - 2e^{3e^{2b_1} z_2 + 2z_2} + e^{4e^{2b_1} z_2 + z_2} + 2e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 4B_2^4 z_1 - 4B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + B_2^6 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n48}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 + 2B_2^4 - 3B_2^3 + 3B_2^2 - 3B_2 + z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n49}	$\left(\left(\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 + B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 4B_2^4 z_1 - 4B_2^3 z_1 + 4B_2^2 z_1 - 3B_2 z_1 + 2B_2^5 - 3B_2^4 + 3B_2^3 - 3B_2^2 + 2B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n50}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 6B_2^3 z_1 + 10B_2^2 z_1 - 6B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n51}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 4B_2^5 z_1 + 5B_2^4 z_1 - 4B_2^3 z_1 + 5B_2^2 z_1 - 4B_2 z_1 - B_2^5 + 3B_2^4 - 3B_2^3 + 3B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n52}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 - 2B_2^3 + 5B_2^2 - 2B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n53}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 4B_2^3 z_1 + 6B_2^2 z_1 - 4B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n54}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-2B_1 e^{e^{2b_1} z_2 + 4z_2} + B_1 e^{3e^{2b_1} z_2 + 2z_2} + 2e^{5e^{2b_1} z_2} + e^{2e^{2b_1} z_2 + 3z_2} - 2e^{4e^{2b_1} z_2 + z_2} + 2B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^3 e^{\frac{3}{2} e^{2b_2} z_1 + B_2^2 e^{\frac{3}{2} e^{2b_2} z_1}}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2^5 e^{\frac{3z_1}{2}}} \right)$
L_{11n55}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + 6B_1 e^{e^{2b_1} z_2 + 2z_2} - 6B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{3e^{2b_1} z_2} - 6e^{e^{2b_1} z_2 + 2z_2} + 6e^{2e^{2b_1} z_2 + z_2} - 3B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2^5 e^{\frac{3z_1}{2}}} \right)$
L_{11n56}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1} z_2} + 4B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} - 4e^{e^{2b_1} z_2 + 2z_2} + 4e^{2e^{2b_1} z_2 + z_2} + B_1 (-e^{3z_2}) + 2e^{3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2^5 e^{\frac{3z_1}{2}}} \right)$
L_{11n57}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-3B_1 e^{e^{2b_1} z_2 + 4z_2} + 2B_1 e^{2e^{2b_1} z_2 + 3z_2} - B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} - e^{e^{2b_1} z_2 + 4z_2} + 2e^{3e^{2b_1} z_2 + 2z_2} - 3e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2^5 e^{\frac{3z_1}{2}}} \right)$
L_{11n58}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-3B_1 e^{e^{2b_1} z_2 + 4z_2} + 6B_1 e^{2e^{2b_1} z_2 + 3z_2} - 6B_1 e^{3e^{2b_1} z_2 + 2z_2} + 3B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 3e^{e^{2b_1} z_2 + 4z_2} - 6e^{2e^{2b_1} z_2 + 3z_2} + 6e^{3e^{2b_1} z_2 + 2z_2} - 3e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2^5 e^{\frac{3z_1}{2}}} \right)$
L_{11n59}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{e^{2b_1} z_2 + 4z_2} - 4B_1 e^{2e^{2b_1} z_2 + 3z_2} + 4B_1 e^{3e^{2b_1} z_2 + 2z_2} - B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} - e^{e^{2b_1} z_2 + 4z_2} + 4e^{2e^{2b_1} z_2 + 3z_2} - 4e^{3e^{2b_1} z_2 + 2z_2} + e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2^5 e^{\frac{3z_1}{2}}} \right)$
L_{11n60}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-3B_1 e^{e^{2b_1} z_2 + 4z_2} + 6B_1 e^{2e^{2b_1} z_2 + 3z_2} - 4B_1 e^{3e^{2b_1} z_2 + 2z_2} + B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + e^{e^{2b_1} z_2 + 4z_2} - 4e^{2e^{2b_1} z_2 + 3z_2} + 6e^{3e^{2b_1} z_2 + 2z_2} - 3e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2^5 e^{\frac{3z_1}{2}}} \right)$
L_{11n61}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-3B_1 e^{e^{2b_1} z_2 + 4z_2} + 2B_1 e^{2e^{2b_1} z_2 + 3z_2} - 2B_1 e^{3e^{2b_1} z_2 + 2z_2} + B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + e^{e^{2b_1} z_2 + 4z_2} - 2e^{2e^{2b_1} z_2 + 3z_2} + 2e^{3e^{2b_1} z_2 + 2z_2} - 3e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{2b_2 z_1 + \frac{z_1}{2}} + 2B_2^5 e^{\frac{3z_1}{2}}} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n70}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1}z_2} + B_1 e^{e^{2b_1}z_2 + 4z_2} - B_1 e^{2e^{2b_1}z_2 + 3z_2} + B_1 e^{3e^{2b_1}z_2 + 2z_2} - 2B_1 e^{4e^{2b_1}z_2 + z_2} - e^{5e^{2b_1}z_2} - 2e^{e^{2b_1}z_2 + 4z_2} + e^{2e^{2b_1}z_2 + 3z_2} - e^{3e^{2b_1}z_2 + 2z_2} + e^{4e^{2b_1}z_2 + z_2}} \right) \right)$
L_{11n71}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} + e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1}z_2} - 2B_1 e^{e^{2b_1}z_2 + 2z_2} - B_1 e^{2e^{2b_1}z_2 + z_2} + 2e^{3e^{2b_1}z_2} - e^{2b_1}z_2 + 2z_2 - 2e^{2e^{2b_1}z_2 + z_2} + 2B_1 e^{3z_2 + 2e^{3z_2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{1}{2B_2^3 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - B_2^5 e^{e^{2b_2}z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n72}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} + e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1}z_2 + 6B_1 e^{e^{2b_1}z_2 + 2z_2}} - 5B_1 e^{2e^{2b_1}z_2 + z_2} - 2e^{3e^{2b_1}z_2} - 5e^{e^{2b_1}z_2 + 2z_2} + 6e^{2e^{2b_1}z_2 + z_2} - 2B_1 e^{3z_2 + 2e^{3z_2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{1}{2B_2^3 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - B_2^5 e^{e^{2b_2}z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n73}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1}z_2 + 4B_1 e^{e^{2b_1}z_2 + 2z_2}} - 5B_1 e^{2e^{2b_1}z_2 + z_2} - 2e^{3e^{2b_1}z_2} - 5e^{e^{2b_1}z_2 + 2z_2} + 4e^{2e^{2b_1}z_2 + z_2} - 2B_1 e^{3z_2 + 2e^{3z_2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{1}{2B_2^3 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - B_2^5 e^{e^{2b_2}z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n74}	$\left(\left(\frac{B_1 e^{\frac{9}{2}e^{2b_1}z_2 + \frac{5z_2}{2}} + e^{\frac{9}{2}e^{2b_1}z_2 + \frac{5z_2}{2}}}{-B_1 e^{2e^{2b_1}z_2 + 5z_2} + B_1 e^{3e^{2b_1}z_2 + 4z_2} - B_1 e^{4e^{2b_1}z_2 + 3z_2} + B_1 e^{5e^{2b_1}z_2 + 2z_2} + e^{7e^{2b_1}z_2} + e^{2e^{2b_1}z_2 + 5z_2} - e^{3e^{2b_1}z_2 + 4z_2} + e^{4e^{2b_1}z_2 + 3z_2} - e^{5e^{2b_1}z_2 + 2z_2} + e^{6e^{2b_1}z_2 + z_2}} \right) \right)$
L_{11n75}	$\left(\left(\frac{B_1 e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-B_1 e^{e^{2b_1}z_2 + 4z_2} - 2B_1 e^{2e^{2b_1}z_2 + 3z_2} + 2B_1 e^{3e^{2b_1}z_2 + 2z_2} + 2e^{5e^{2b_1}z_2} + 2e^{2e^{2b_1}z_2 + 3z_2} - 2e^{3e^{2b_1}z_2 + 2z_2} - e^{4e^{2b_1}z_2 + z_2} + 2B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{1}{2B_2^5 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - B_2^7 e^{e^{2b_2}z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n76}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1}z_2} + B_1 e^{e^{2b_1}z_2 + 4z_2} - 6B_1 e^{2e^{2b_1}z_2 + 3z_2} + 8B_1 e^{3e^{2b_1}z_2 + 2z_2} - 5B_1 e^{4e^{2b_1}z_2 + z_2} - 5e^{e^{2b_1}z_2 + 4z_2} + 8e^{2e^{2b_1}z_2 + 3z_2} - 6e^{3e^{2b_1}z_2 + 2z_2} + e^{4e^{2b_1}z_2 + z_2}} \right) \right)$
L_{11n77}	$\left(\left(\frac{B_1 e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1}z_2} - 3B_1 e^{2e^{2b_1}z_2 + 3z_2} + 7B_1 e^{3e^{2b_1}z_2 + 2z_2} - 4B_1 e^{4e^{2b_1}z_2 + z_2} - 4e^{e^{2b_1}z_2 + 4z_2} + 7e^{2e^{2b_1}z_2 + 3z_2} - 3e^{3e^{2b_1}z_2 + 2z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{1}{B_2^5 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - B_2^7 e^{e^{2b_2}z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})}$

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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n78}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 6B_2^3 z_1 + 8B_2^2 z_1 - 6B_2 z_1 + 2B_2^4 - 3B_2^3 + 3B_2^2 - 3B_2 + 2z_1 + 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n79}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} - 4B_1 e^{2e^{2b_1} z_2 + 3z_2} + 6B_1 e^{3e^{2b_1} z_2 + 2z_2} - 4B_1 e^{4e^{2b_1} z_2 + z_2} - 4e^{e^{2b_1} z_2 + 4z_2} + 6e^{2e^{2b_1} z_2 + 3z_2} - 4e^{3e^{2b_1} z_2 + 2z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{1}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 6B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n80}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 5B_2^4 z_1 - 6B_2^3 z_1 + 5B_2^2 z_1 - 3B_2 z_1 + B_2^6 - B_2^5 + B_2^4 - B_2^3 + B_2^2 - B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n81}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 3B_2^5 z_1 + 5B_2^4 z_1 - 6B_2^3 z_1 + 5B_2^2 z_1 - 3B_2 z_1 + 2B_2^5 - 4B_2^4 + 5B_2^3 - 4B_2^2 + 2B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n82}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{4B_1 e^{3e^{2b_1} z_2} + 4B_1 e^{e^{2b_1} z_2 + 2z_2} - 6B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} - 6e^{e^{2b_1} z_2 + 2z_2} + 4e^{2e^{2b_1} z_2 + z_2} + B_1 (-e^{3z_2}) + 4e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{1}{4B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 6B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 4B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n83}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 6B_2^3 z_1 + 8B_2^2 z_1 - 6B_2 z_1 + 3B_2^3 - 5B_2^2 + 3B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n84}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2} + 4B_1 e^{e^{2b_1} z_2 + 2z_2} - 3B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} - 3e^{e^{2b_1} z_2 + 2z_2} + 4e^{2e^{2b_1} z_2 + z_2} + B_1 (-e^{3z_2}) + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{1}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 3B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 4B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n85}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2} + 6B_1 e^{e^{2b_1} z_2 + 2z_2} - 5B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{3e^{2b_1} z_2} - 5e^{e^{2b_1} z_2 + 2z_2} + 6e^{2e^{2b_1} z_2 + z_2} - 3B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{1}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 5B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 4B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n86}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} + 2B_1 e^{e^{2b_1} z_2 + 4z_2} - B_1 e^{2e^{2b_1} z_2 + 3z_2} + B_1 e^{3e^{2b_1} z_2 + 2z_2} - 2B_1 e^{4e^{2b_1} z_2 + z_2} - 2e^{5e^{2b_1} z_2} - 2e^{e^{2b_1} z_2 + 4z_2} + e^{2e^{2b_1} z_2 + 3z_2} - e^{3e^{2b_1} z_2 + 2z_2} + 2e^{4e^{2b_1} z_2 + z_2} - 2B_1 e^{e^{2b_1} z_2 + 2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{1}{B_2^5 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 6B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n87}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1} z_2} - B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} - e^{2b_1 z_2 + 2z_2} + B_1 (-e^{3z_2}) + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^3 \left(-e^{\frac{3z_1}{2}} \right) - B_2 e^{\frac{3z_1}{2} + z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n88}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^3}{B_2^6 z_1 - 5B_2^5 z_1 + 11B_2^4 z_1 - 14B_2^3 z_1 + 11B_2^2 z_1 - 5B_2 z_1 + B_2^5 - 5B_2^4 + 9B_2^3 - 5B_2^2 + B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n89}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} - B_1 e^{e^{2b_1} z_2 + 4z_2} + 2B_1 e^{2e^{2b_1} z_2 + 3z_2} + 2B_1 e^{3e^{2b_1} z_2 + 2z_2} - 3B_1 e^{4e^{2b_1} z_2 + z_2} - 3e^{e^{2b_1} z_2 + 4z_2} + 2e^{2e^{2b_1} z_2 + 3z_2} + 2e^{3e^{2b_1} z_2 + 2z_2} - e^{4e^{2b_1} z_2 + z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n90}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{-5B_1 e^{e^{2b_1} z_2 + 2z_2} + 2B_1 e^{2e^{2b_1} z_2 + z_2} + 2e^{3e^{2b_1} z_2} + 2e^{e^{2b_1} z_2 + 2z_2} - 5e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 5B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2e^{e^{2b_2} z_1 + \frac{z_1}{2}} + 2B_2^3 e^{e^{2b_2} z_1 + \frac{z_1}{2} + z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n91}	$\left(\left(\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 + B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 + 3B_2^3 - 5B_2^2 + 3B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n92}	$\left((1)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 8B_2^3 z_1 + 12B_2^2 z_1 - 8B_2 z_1 + B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n93}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 - B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n94}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 + B_2^4 - 5B_2^3 + 7B_2^2 - 5B_2 + z_1 + 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n95}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1} z_2} - 2B_1 e^{e^{2b_1} z_2 + 4z_2} + 2B_1 e^{2e^{2b_1} z_2 + 3z_2} - B_1 e^{3e^{2b_1} z_2 + 2z_2} + e^{5e^{2b_1} z_2} - e^{2e^{2b_1} z_2 + 3z_2} + 2e^{3e^{2b_1} z_2 + 2z_2} - 2e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n104}	$\left(\left(\frac{B_1 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} \right) - e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{B_1 e^{3e^{2b_1}z_2 + 6B_1 e^{2b_1}z_2 + 2z_2} - 6B_1 e^{2e^{2b_1}z_2 + z_2} - 2e^{3e^{2b_1}z_2} - 6e^{2b_1}z_2 + 2z_2 + 6e^{2e^{2b_1}z_2 + z_2} - 2B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 6B_2^2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} + 6B_2 e^{e^{2b_2}z_1 + \frac{z_1}{2}}}{B_2^3 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - 6B_2^2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} + 6B_2 e^{e^{2b_2}z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n105}	$\left((1)_{(\{1\}, \{2\})}, \left(-\frac{B_2^3}{B_2^6 z_1 - 4B_2^5 z_1 + 7B_2^4 z_1 - 8B_2^3 z_1 + 7B_2^2 z_1 - 4B_2 z_1 + B_2^5 - 5B_2^4 + 7B_2^3 - 5B_2^2 + B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n106}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1}z_2} - 2B_1 e^{e^{2b_1}z_2 + 4z_2} + 3B_1 e^{2e^{2b_1}z_2 + 3z_2} - B_1 e^{3e^{2b_1}z_2 + 2z_2} - 2B_1 e^{4e^{2b_1}z_2 + z_2} - 2e^{2b_1}z_2 + 4z_2 - 2e^{2e^{2b_1}z_2 + 3z_2} + 3e^{2b_1}z_2 + 2z_2 - 2e^{4e^{2b_1}z_2 + z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n107}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{3B_2^4 z_1 - 10B_2^3 z_1 + 14B_2^2 z_1 - 10B_2 z_1 - 2B_2^4 + 4B_2^3 - 5B_2^2 + 4B_2 + 3z_1 - 2} \right)_{(\{2\}, \{1\})} \right)$
L_{11n108}	$\left(\left(\frac{B_1 e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{-B_1 e^{e^{2b_1}z_2 + 4z_2} - 2B_1 e^{2e^{2b_1}z_2 + 3z_2} + 3B_1 e^{3e^{2b_1}z_2 + 2z_2} - B_1 e^{4e^{2b_1}z_2 + z_2} + 2e^{5e^{2b_1}z_2} - e^{2b_1}z_2 + 4z_2 + 3e^{2e^{2b_1}z_2 + 3z_2} - 2e^{3e^{2b_1}z_2 + 2z_2} - e^{4e^{2b_1}z_2 + z_2} + 2B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n109}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}} + e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2}{2}}}{2B_1 e^{3e^{2b_1}z_2} - B_1 e^{e^{2b_1}z_2 + 2z_2} - B_1 e^{2e^{2b_1}z_2 + z_2} + e^{3e^{2b_1}z_2} - e^{e^{2b_1}z_2 + 2z_2} - e^{2e^{2b_1}z_2 + z_2} + B_1 e^{3z_2} + 2e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{e^{2b_2}z_1 + \frac{z_1}{2}}}{2B_2^3 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - B_2^2 e^{e^{2b_2}z_1 + \frac{z_1}{2}} - B_2 e^{e^{2b_2}z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n110}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1}z_2} + B_1 e^{e^{2b_1}z_2 + 4z_2} - 6B_1 e^{2e^{2b_1}z_2 + 3z_2} + 7B_1 e^{3e^{2b_1}z_2 + 2z_2} - 4B_1 e^{4e^{2b_1}z_2 + z_2} - 4e^{2b_1}z_2 + 4z_2 + 7e^{2e^{2b_1}z_2 + 3z_2} - 6e^{3e^{2b_1}z_2 + 2z_2} + e^{4e^{2b_1}z_2 + z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n111}	$\left(\left(\frac{B_1 \left(-e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}} \right) - e^{\frac{7}{2}e^{2b_1}z_2 + \frac{3z_2}{2}}}{B_1 e^{5e^{2b_1}z_2} - B_1 e^{e^{2b_1}z_2 + 4z_2} + 2B_1 e^{2e^{2b_1}z_2 + 3z_2} - B_1 e^{3e^{2b_1}z_2 + 2z_2} - 2B_1 e^{4e^{2b_1}z_2 + z_2} - 2e^{e^{2b_1}z_2 + 4z_2} - e^{2e^{2b_1}z_2 + 3z_2} + 2e^{3e^{2b_1}z_2 + 2z_2} - e^{4e^{2b_1}z_2 + z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n112}	$\left(\left(-\frac{B_1}{2B_1^2 z_2 - 4B_1 z_2 - B_1 + 2z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^3 z_1 - 4B_2^2 z_1 + 2B_2 z_1 + B_2^4 - 4B_2^3 + 5B_2^2 - 4B_2 + 1} \right)_{(\{2\}, \{1\})} \right)$

Continued on next page

TABLE OF VALUES

149

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n122}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{2B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} + e^{3e^{2b_1} z_2} - 2e^{e^{2b_1} z_2 + 2z_2} + 2e^{2e^{2b_1} z_2 + z_2} + B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 \left(-e^{\frac{3}{2} e^{2b_2} z_1} \right) - B_2 e^{\frac{3}{2} e^{2b_2} z_1}}{2B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 2B_2 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - e^{e^{2b_2} z_1 + \frac{z_1}{2}} + B_2^3 \left(-e^{\frac{3z_1}{2}} \right)} \right)_{(\{1\}, \{2\})} \right)$
L_{11n123}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-3B_1 e^{e^{2b_1} z_2 + 4z_2} + 4B_1 e^{2e^{2b_1} z_2 + 3z_2} - 4B_1 e^{3e^{2b_1} z_2 + 2z_2} + 3B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} + 3e^{e^{2b_1} z_2 + 4z_2} - 4e^{2e^{2b_1} z_2 + 3z_2} + 4e^{3e^{2b_1} z_2 + 2z_2} - 3e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n124}	$\left(\left(-\frac{B_1}{B_1^2 z_2 - 2B_1 z_2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 7B_2^3 z_1 + 10B_2^2 z_1 - 7B_2 z_1 - B_2^4 + 5B_2^3 - 9B_2^2 + 5B_2 + 2z_1 - 1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n125}	$\left(\left(\frac{B_1 e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{7}{2} e^{2b_1} z_2 + \frac{3z_2}{2}}}{-3B_1 e^{e^{2b_1} z_2 + 4z_2} + 4B_1 e^{2e^{2b_1} z_2 + 3z_2} - B_1 e^{4e^{2b_1} z_2 + z_2} + e^{5e^{2b_1} z_2} - e^{e^{2b_1} z_2 + 4z_2} + 4e^{3e^{2b_1} z_2 + 2z_2} - 3e^{4e^{2b_1} z_2 + z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^4 e^{e^{2b_2} z_1 + \frac{z_1}{2}} - 4B_2^2 e^{e^{2b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n126}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{-3B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - B_1 e^{4e^{-b_1} z_2} + 4B_1 e^{e^{-b_1} z_2 + 3z_2} - 7B_1 e^{2e^{-b_1} z_2 + 2z_2} + 4B_1 e^{3e^{-b_1} z_2 + z_2} + e^{4e^{-b_1} z_2} + 2e^{2e^{-b_1} z_2 + 2z_2} - 3e^{3e^{-b_1} z_2 + z_2} + B_1^2 e^{4z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n127}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - 2B_1^2 e^{e^{b_1} z_2 + z_2} - B_1 e^{2e^{b_1} z_2} + B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 2e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} - 2B_2 e^{2e^{b_2} z_1}}{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} - 2B_2 e^{2e^{b_2} z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n128}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^2 \left(-e^{4e^{-b_1} z_2} \right) - 2B_1^2 e^{2e^{-b_1} z_2 + 2z_2} + 3B_1^2 e^{3e^{-b_1} z_2 + z_2} + B_1 e^{4e^{-b_1} z_2} - 2B_1 e^{e^{-b_1} z_2 + 3z_2} + B_1 e^{2e^{-b_1} z_2 + 2z_2} - 2B_1 e^{3e^{-b_1} z_2 + z_2} + 3e^{e^{-b_1} z_2 + 3z_2} - 2e^{2e^{-b_1} z_2 + 2z_2} + B_1^2 e^{4z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n129}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + z_2} - 2B_1 e^{2e^{b_1} z_2} + 7B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 3e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - 2B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{2e^{b_2} z_1} - 2B_2^2 e^{e^{b_2} z_1 + z_1} - 3B_2 e^{2e^{b_2} z_1}}{B_2^2 e^{2e^{b_2} z_1} - 2B_2^2 e^{e^{b_2} z_1 + z_1} - 3B_2 e^{2e^{b_2} z_1}} \right)_{(\{1\}, \{2\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n130}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 4B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 4B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right) \right)$
L_{11n131}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} + 2B_1 e^{e^{b_1} z_2 + 3z_2} - 3B_1 e^{2e^{b_1} z_2 + 2z_2} + 2B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2} + e^{e^{b_1} z_2 + z_2}} \right) \right)$
L_{11n132}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2 + 2z_2} - B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{4e^{b_1} z_2} - B_1 e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + 3z_2} + e^{2e^{b_1} z_2 + 2z_2} + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_2^2 e^{\frac{3}{2} e^{b_2} z_1}}{B_2^4 (-e^{e^{b_2} z_1 + z_1}) + B_2^3 e^{2e^{b_2} z_1} - B_2^2 e^{2e^{b_2} z_1} - e^{e^{b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})}$
L_{11n133}	$\left(\left(\frac{B_1^2 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{6e^{3b_1} z_2} + B_1 e^{2e^{3b_1} z_2 + 4z_2} - B_1 e^{3e^{3b_1} z_2 + 3z_2} + B_1 e^{4e^{3b_1} z_2 + 2z_2} + e^{6z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^4 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{\frac{5}{2} e^{3b_2} z_1}}{B_2^6 e^{2e^{3b_2} z_1 + \frac{z_1}{2}} + B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{3b_2 z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n134}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + B_1^2 e^{2e^{b_1} z_2 + 2z_2} - B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 2B_1 e^{e^{b_1} z_2 + 3z_2} - B_1 e^{2e^{b_1} z_2 + 2z_2} + 2B_1 e^{3e^{b_1} z_2 + z_2} - e^{e^{b_1} z_2 + 3z_2} + e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2} + e^{e^{b_1} z_2 + z_2}} \right) \right)$
L_{11n135}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + B_1^2 e^{2e^{b_1} z_2 + 2z_2} - B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{e^{b_1} z_2 + 3z_2} - B_1 e^{2e^{b_1} z_2 + 2z_2} + B_1 e^{3e^{b_1} z_2 + z_2} - e^{e^{b_1} z_2 + 3z_2} + e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2} + e^{4z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n136}	$\left(\left(\frac{B_1^2 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{e^{3b_1} z_2 + 5z_2} + B_1 e^{6e^{3b_1} z_2} - B_1 e^{e^{3b_1} z_2 + 5z_2} + B_1 e^{2e^{3b_1} z_2 + 4z_2} - B_1 e^{3e^{3b_1} z_2 + 3z_2} + B_1 e^{4e^{3b_1} z_2 + 2z_2} - B_1 e^{5e^{3b_1} z_2 + z_2} + e^{5e^{3b_1} z_2 + z_2} + B_1 e^{6z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^6 e^{e^{3b_2} z_1}}{B_2^6 e^{e^{3b_2} z_1}} \right)_{(\{1\}, \{2\})}$
L_{11n137}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + 3z_2} - 7B_1 e^{2e^{b_1} z_2 + 2z_2} + 5B_1 e^{3e^{b_1} z_2 + z_2} - 3e^{e^{b_1} z_2 + 3z_2} + 3e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right) \right)$
L_{11n138}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + z_2} - B_1 e^{2e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + z_2} - e^{e^{b_1} z_2 + z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} - B_2 e^{2e^{b_2} z_1} + 3B_2 e^{e^{b_2} z_1 + z_1} - e^{e^{b_2} z_1}} \right)_{(\{1\}, \{2\})}$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n139}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + z_2} + B_1 e^{2e^{b_1} z_2} - B_1 e^{e^{b_1} z_2 + z_2} - e^{e^{b_1} z_2 + z_2} + B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2} z_1} + B_2^2 e^{e^{b_2} z_1 + z_1} - B_2 e^{2e^{b_2} z_1} - B_2 e^{e^{b_2} z_1 + z_1} + e^{e^{b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n140}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + z_2} - B_1 e^{2e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + z_2} - 3e^{e^{b_1} z_2 + z_2} - B_1 e^{2z_2} + e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} - 3B_2 e^{e^{b_2} z_1} + 5B_2 e^{e^{b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n141}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1} z_2} - B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{2e^{3b_1} z_2 + z_2} - e^{3b_1 z_2 + 3z_2} + 2e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{\frac{5}{2} e^{3b_2} z_1} + B_2 e^{\frac{5}{2} e^{3b_2} z_1}}{2B_2^4 e^{2e^{3b_2} z_1} + \frac{z_1}{2} - B_2^3 e^{2e^{3b_2} z_1} + \frac{z_1}{2} + B_2^2 e^{e^{3b_2} z_1} + \frac{3z_1}{2}} - B_2 e^{\frac{5z_1}{2} + 2e^{\frac{5z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n142}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + z_2} - 2B_1 e^{2e^{b_1} z_2} + 7B_1 e^{e^{b_1} z_2 + z_2} - 3e^{e^{b_1} z_2 + z_2} - 2B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{2B_2^2 e^{2e^{b_2} z_1} - 2B_2^2 e^{e^{b_2} z_1 + z_1} - 3B_2 e^{e^{b_2} z_1} + 7B_2 e^{e^{b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n143}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 2B_1 e^{2e^{b_1} z_2} + B_1 e^{e^{b_1} z_2 + z_2} - 2B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{2B_2^2 e^{2e^{b_2} z_1} - 2B_2^2 e^{e^{b_2} z_1 + z_1} + B_2 e^{e^{b_2} z_1 + z_1} - 2e^{e^{b_2} z_1 + z_1} + 2e^{2z_1}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n144}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} - B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + 2B_1 e^{4e^{3b_1} z_2} - 3B_1 e^{e^{3b_1} z_2 + 3z_2} + 3B_1 e^{2e^{3b_1} z_2 + 2z_2} - 3B_1 e^{3e^{3b_1} z_2 + z_2} - e^{2e^{3b_1} z_2 + 2z_2} + 2e^{3e^{3b_1} z_2 + z_2} + 2B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\dots \right)_{(\{1\}, \{2\})} \right)$
L_{11n145}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 4B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 4B_1 e^{3e^{b_1} z_2 + z_2} - 3e^{e^{b_1} z_2 + 3z_2} + 3e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(\dots \right)_{(\{1\}, \{2\})} \right)$
L_{11n146}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{e^{b_1} z_2 + 3z_2} - 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} + B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{4e^{b_1} z_2} - 4B_1 e^{e^{b_1} z_2 + 3z_2} + 5B_1 e^{2e^{b_1} z_2 + 2z_2} - 4B_1 e^{3e^{b_1} z_2 + z_2} - e^{4e^{b_1} z_2} + e^{e^{b_1} z_2 + 3z_2} - 2e^{2e^{b_1} z_2 + 2z_2} + 2e^{3e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(\dots \right)_{(\{1\}, \{2\})} \right)$
L_{11n147}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + B_1 e^{e^{b_1} z_2 + 3z_2} - B_1 e^{2e^{b_1} z_2 + 2z_2} + B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(\dots \right)_{(\{1\}, \{2\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n148}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{B_1 e^{4e^{3b_1} z_2} - B_1 e^{e^{3b_1} z_2 + 3z_2} + B_1 e^{2e^{3b_1} z_2 + 2z_2} - B_1 e^{3e^{3b_1} z_2 + z_2} + e^{4e^{3b_1} z_2} + B_1^2 e^{4z_2} + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}}{B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n149}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} \right) - B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} - e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 2B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1 e^{4e^{3b_1} z_2} - 3B_1 e^{e^{3b_1} z_2 + 3z_2} + 3B_1 e^{2e^{3b_1} z_2 + 2z_2} - 3B_1 e^{3e^{3b_1} z_2 + z_2} - e^{4e^{3b_1} z_2} - 2e^{2e^{3b_1} z_2 + 2z_2} + 2e^{3e^{3b_1} z_2 + z_2} + B_1^2 (-e^{4z_2}) - B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}}{B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n150}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2^2}{2}}}{B_1^2 e^{2e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + z_2} - B_1 e^{2e^{b_1} z_2 + 5B_1 e^{e^{b_1} z_2 + z_2} - 3e^{b_1} z_2 + z_2} - B_1 e^{2z_2 + e^{2z_2}}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{B_2^2 e^{2e^{b_2} z_1} - B_2^2 e^{e^{b_2} z_1 + z_1} - 3B_2 e^{2e^{b_2} z_1 + 5B_2 e^{e^{b_2} z_1 + z_1}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n151}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^2 e^{4e^{3b_1} z_2} + B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{e^{3b_1} z_2 + 3z_2} - B_1 e^{2e^{3b_1} z_2 + 2z_2} + B_1 e^{3e^{3b_1} z_2 + z_2} - 2e^{e^{3b_1} z_2 + 3z_2} + e^{2e^{3b_1} z_2 + 2z_2} + 2e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}}{2B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - 2B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n152}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2^2}{2}}}{2B_1^2 e^{e^{b_1} z_2 + 3z_2} - B_1^2 e^{2e^{b_1} z_2 + 2z_2} + B_1 e^{4e^{b_1} z_2} - 3B_1 e^{e^{b_1} z_2 + 3z_2} + 3B_1 e^{2e^{b_1} z_2 + 2z_2} - 3B_1 e^{3e^{b_1} z_2 + z_2} - e^{4e^{b_1} z_2} - e^{2e^{b_1} z_2 + 2z_2} + 2e^{3e^{b_1} z_2 + z_2} + B_1^2 (-e^{4z_2}) + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}}{2B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - 2B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n153}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + z_2} - 2B_1 e^{2e^{b_1} z_2 + 7B_1 e^{e^{b_1} z_2 + z_2} - 4e^{b_1} z_2 + z_2} - 2B_1 e^{2z_2 + 2e^{2z_2}}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2 e^{\frac{3}{2} e^{b_2} z_1 + \frac{z_1}{2}}}{2B_2^2 e^{2e^{b_2} z_1} - 2B_2^2 e^{e^{b_2} z_1 + z_1} - 4B_2 e^{2e^{b_2} z_1 + 7B_2 e^{e^{b_2} z_1 + z_1}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n154}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2^2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + B_1^2 e^{2e^{b_1} z_2 + 2z_2} - B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 3B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - e^{e^{b_1} z_2 + 3z_2} + e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}}{2B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - 2B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n155}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2^2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 4B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 4B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}}{2B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - 2B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n156}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 2B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + 2B_1 e^{4e^{3b_1} z_2} - 4B_1 e^{e^{3b_1} z_2 + 3z_2} + 5B_1 e^{2e^{3b_1} z_2 + 2z_2} - 4B_1 e^{3e^{3b_1} z_2 + z_2} + e^{e^{3b_1} z_2 + 3z_2} - 2e^{2e^{3b_1} z_2 + 2z_2} + 2e^{3e^{3b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{\frac{5}{2} e^{3b_2} z_1} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}}{2B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} - 2B_2^3 e^{e^{3b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2	Column 3
L_{11n157}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1^2 e^{4e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + 3z_2} - 7B_1 e^{2e^{b_1} z_2 + 2z_2} + 5B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + z_2}} \right) \right)$	
L_{11n158}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} + B_1 e^{4e^{3b_1} z_2} - B_1 e^{e^{3b_1} z_2 + 3z_2} + B_1 e^{2e^{3b_1} z_2 + 2z_2} - B_1 e^{3e^{3b_1} z_2 + z_2} - e^{4e^{3b_1} z_2} + 2e^{3e^{3b_1} z_2 + z_2} + B_1^2 (-e^{4z_2}) + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})} \right)$	$\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{B_2^4 e^{e^{3b_2} z_1 + \frac{3z_1}{2}}} \right)$
L_{11n159}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_1^2 (-e^{4e^{-b_1} z_2}) - B_1^2 e^{2e^{-b_1} z_2 + 2z_2} + 2B_1^2 e^{3e^{-b_1} z_2 + z_2} + B_1 e^{4e^{-b_1} z_2} - B_1 e^{2e^{-b_1} z_2 + 2z_2} + 2e^{e^{-b_1} z_2 + 3z_2} - e^{2e^{-b_1} z_2 + 2z_2} + B_1 e^{4z_2} - e^{4z_2}} \right)_{(\{1\}, \{2\})} \right)$	$\left(-\frac{B_1^2 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{B_2^4 e^{2e^{-b_2} z_1 + \frac{5z_1}{2}}} \right)$
L_{11n160}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + z_2} - 3B_1^2 e^{2e^{b_1} z_2} + 7B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 3e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - 3B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})} \right)$	$\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_2^2 e^{2e^{b_2} z_1} - 3B_2^2 e^{e^{b_2} z_1 + z_1} - 3B_2 e^{2e^{b_2} z_1}} \right)$
L_{11n161}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + z_2} - 2B_1 e^{2e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 3e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - 2B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})} \right)$	$\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_2^2 e^{2e^{b_2} z_1} - 2B_2^2 e^{e^{b_2} z_1 + z_1} - 3B_2 e^{2e^{b_2} z_1}} \right)$
L_{11n162}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{-B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 2B_1 e^{e^{3b_1} z_2 + 3z_2} + 3B_1 e^{2e^{3b_1} z_2 + 2z_2} - 2B_1 e^{3e^{3b_1} z_2 + z_2} + e^{4e^{3b_1} z_2} + e^{3b_1 z_2 + 3z_2} - e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{4z_2} + B_1 e^{4z_2}} \right) \right)$	
L_{11n163}	$\left(\left(\frac{B_1^2 (-e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}) - B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} - e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 3B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 4B_1 e^{e^{3b_1} z_2 + 3z_2} + 5B_1 e^{2e^{3b_1} z_2 + 2z_2} - 4B_1 e^{3e^{3b_1} z_2 + z_2} - e^{4e^{3b_1} z_2} + e^{3b_1 z_2 + 3z_2} - e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{4z_2} + B_1 e^{4z_2}} \right) \right)$	
L_{11n164}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} - B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 2B_1 e^{e^{3b_1} z_2 + 3z_2} + 3B_1 e^{2e^{3b_1} z_2 + 2z_2} - 2B_1 e^{3e^{3b_1} z_2 + z_2} - e^{4e^{3b_1} z_2} + e^{3b_1 z_2 + 3z_2} - e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{4z_2} + B_1 e^{4z_2}} \right) \right)$	
	Continued on next page	TABLE VALUE

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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n165}	$\left(\left(\frac{B_1^2 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{2e^{3b_1} z_2 + 4z_2} - B_1^2 e^{3e^{3b_1} z_2 + 3z_2} + B_1^2 e^{5e^{3b_1} z_2 + z_2} + B_1 e^{6e^{3b_1} z_2} - B_1 e^{e^{3b_1} z_2 + 5z_2} + B_1 e^{3e^{3b_1} z_2 + 3z_2} - B_1 e^{5e^{3b_1} z_2 + z_2} + e^{3e^{3b_1} z_2 + 5z_2} - e^{3e^{3b_1} z_2 + 3z_2} + e^{4e^{3b_1} z_2 + 2z_2}} \right) \right.$
L_{11n166}	$\left. \left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1} z_2} + B_1^2 e^{e^{3b_1} z_2 + 3z_2} - B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - B_1 e^{e^{3b_1} z_2 + 3z_2} + B_1 e^{2e^{3b_1} z_2 + 2z_2} - B_1 e^{3e^{3b_1} z_2 + z_2} - e^{3b_1 z_2 + 3z_2} + e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4z_2} + e^{4z_2}} \right) \right)_{(\{1\})}$
L_{11n167}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} - e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1} z_2} - B_1^2 e^{e^{3b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{3b_1} z_2 + z_2} - B_1 e^{4e^{3b_1} z_2} + 3B_1 e^{e^{3b_1} z_2 + 3z_2} - 5B_1 e^{2e^{3b_1} z_2 + 2z_2} + 3B_1 e^{3e^{3b_1} z_2 + z_2} - 3e^{3b_1 z_2 + 3z_2} + 2e^{2e^{3b_1} z_2 + 2z_2}} \right) \right.$
L_{11n168}	$\left. \left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1} z_2} - B_1^2 e^{e^{3b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - B_1^2 e^{3e^{3b_1} z_2 + z_2} - B_1 e^{4e^{3b_1} z_2} + 3B_1 e^{e^{3b_1} z_2 + 3z_2} - 3B_1 e^{2e^{3b_1} z_2 + 2z_2} + 3B_1 e^{3e^{3b_1} z_2 + z_2} - e^{3b_1 z_2 + 3z_2} + 2e^{2e^{3b_1} z_2 + 2z_2}} \right) \right.$
L_{11n169}	$\left. \left(\frac{B_1^2 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}} + e^{\frac{9}{2} e^{3b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{6e^{3b_1} z_2} + B_1^2 e^{3e^{3b_1} z_2 + 3z_2} - B_1^2 e^{4e^{3b_1} z_2 + 2z_2} + 2B_1 e^{2e^{3b_1} z_2 + 4z_2} - 3B_1 e^{3e^{3b_1} z_2 + 3z_2} + 2B_1 e^{4e^{3b_1} z_2 + 2z_2} - e^{2e^{3b_1} z_2 + 4z_2} + e^{3e^{3b_1} z_2 + 3z_2} + e^{6z_2}} \right) \right)_{(\{1\}, \{2\})}, \left(\frac{\dots}{B_2} \right)$
L_{11n170}	$\left(\left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1} z_2 + z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - 3e^{e^{b_1} z_2 + 3z_2} + 3e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2} + e^{e^{b_1} z_2 + 3z_2}} \right) \right.$
L_{11n171}	$\left. \left(\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 3B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 6B_1 e^{e^{b_1} z_2 + 3z_2} - 9B_1 e^{2e^{b_1} z_2 + 2z_2} + 6B_1 e^{3e^{b_1} z_2 + z_2} - 3e^{e^{b_1} z_2 + 3z_2} + 3e^{2e^{b_1} z_2 + 2z_2} - e^{3e^{b_1} z_2 + z_2} + e^{e^{b_1} z_2 + 3z_2}} \right) \right.$
L_{11n172}	$\left. \left(-\frac{B_1 e^{\frac{1}{2} e^{-b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{2e^{-b_1} z_2} - 5B_1^2 e^{e^{-b_1} z_2 + z_2} - 3B_1 e^{2e^{-b_1} z_2} + 9B_1 e^{e^{-b_1} z_2 + z_2} + 2e^{2e^{-b_1} z_2} - 5e^{e^{-b_1} z_2 + z_2} + 2B_1^2 e^{2z_2} - 3B_1 e^{2z_2} + e^{2z_2}} \right) \right)_{(\{1\}, \{2\})}, \left(-\frac{\dots}{B_2^2 e^{2e^{-b_2} z_1} - 3B_2^2 e^{e^{-b_2} z_1} + e^{2e^{-b_2} z_1}} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11n173}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2(-e^{4e^{-b_1}z_2}) + 2B_1^2 e^{e^{-b_1}z_2 + 3z_2} - 4B_1^2 e^{2e^{-b_1}z_2 + 2z_2} + 3B_1^2 e^{3e^{-b_1}z_2 + z_2} + B_1 e^{4e^{-b_1}z_2 - 5B_1 e^{-b_1}z_2 + 3z_2} + 9B_1 e^{2e^{-b_1}z_2 + 2z_2} - 5B_1 e^{3e^{-b_1}z_2 + z_2} + 3e^{e^{-b_1}z_2 + 3z_2} - 2e^{e^{-b_1}z_2 + 2z_2}} \right)} \right)$	
L_{11n174}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{B_1^2 e^{4e^{3b_1}z_2} + B_1^2 e^{2e^{3b_1}z_2 + 2z_2} - 3B_1^2 e^{3e^{3b_1}z_2 + z_2} + B_1 e^{3e^{3b_1}z_2 + 3z_2} - 3B_1 e^{2e^{3b_1}z_2 + 2z_2} + B_1 e^{3e^{3b_1}z_2 + z_2} - 3e^{e^{3b_1}z_2 + 3z_2} + e^{2e^{3b_1}z_2 + 2z_2} + e^{4z_2}} \right)} \right)$	$\left(\frac{1}{B_2^4 e^{e^{3b_2}z_1 + \frac{3z_1}{2}}} \right)_{(\{1\}, \{2\})}$
L_{11n175}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} - e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{3B_1^2 e^{e^{3b_1}z_2 + 3z_2} - 3B_1^2 e^{2e^{3b_1}z_2 + 2z_2} + 2B_1 e^{4e^{3b_1}z_2 - 5B_1 e^{3b_1}z_2 + 3z_2} + 5B_1 e^{2e^{3b_1}z_2 + 2z_2} - 5B_1 e^{3e^{3b_1}z_2 + z_2} - 4e^{e^{3b_1}z_2 - 3e^{3b_1}z_2 + 2z_2} + 3e^{3e^{3b_1}z_2 + z_2} + B_1^2(-e^{4z_2})} \right)} \right)$	
L_{11n176}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}} + e^{\frac{7}{2}e^{3b_1}z_2 + \frac{z_2}{2}}}{2B_1^2 e^{4e^{3b_1}z_2} - B_1^2 e^{3e^{3b_1}z_2 + z_2} - B_1 e^{4e^{3b_1}z_2} + B_1 e^{e^{3b_1}z_2 + 3z_2} + B_1 e^{2e^{3b_1}z_2 + 2z_2} + B_1 e^{3e^{3b_1}z_2 + z_2} - e^{e^{3b_1}z_2 + 3z_2} - B_1 e^{4z_2} + 2e^{4z_2}} \right)} \right)$	$\left(\frac{1}{B_2^4 \left(-e^{e^{3b_2}z_1 + \frac{3z_1}{2}} \right)} \right)_{(\{1\}, \{2\})}$
L_{11n177}	$\left(\left(\frac{B_1 e^{\frac{3}{2}e^{-b_1}z_2 + \frac{5z_2}{2}}}{B_1^2 e^{4e^{-b_1}z_2} - 3B_1^2 e^{e^{-b_1}z_2 + 3z_2} + 3B_1^2 e^{2e^{-b_1}z_2 + 2z_2} - 2B_1^2 e^{3e^{-b_1}z_2 + z_2} - 2B_1 e^{4e^{-b_1}z_2} + 5B_1 e^{e^{-b_1}z_2 + 3z_2} - 5B_1 e^{2e^{-b_1}z_2 + 2z_2} + 5B_1 e^{3e^{-b_1}z_2 + z_2} + e^{4e^{-b_1}z_2} - 2e^{e^{-b_1}z_2 + 3z_2} + 2e^{e^{-b_1}z_2 + 2z_2} - 2e^{e^{-b_1}z_2 + z_2}} \right)} \right)$	
L_{11n178}	$\left(\left(-\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1}z_2} - B_1^2 e^{e^{b_1}z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1}z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1}z_2 + z_2} - B_1 e^{4e^{b_1}z_2} + 3B_1 e^{e^{b_1}z_2 + 3z_2} - 5B_1 e^{2e^{b_1}z_2 + 2z_2} + 3B_1 e^{3e^{b_1}z_2 + z_2} - 2e^{e^{b_1}z_2 + 3z_2} + 2e^{e^{b_1}z_2 + 2z_2} - 2e^{e^{b_1}z_2 + z_2}} \right)} \right)$	
L_{11n179}	$\left(\left(\frac{B_1 e^{\frac{5}{2}e^{b_1}z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{e^{b_1}z_2 + 3z_2} - 2B_1^2 e^{2e^{b_1}z_2 + 2z_2} + B_1^2 e^{3e^{b_1}z_2 + z_2} + B_1 e^{4e^{b_1}z_2} - 4B_1 e^{e^{b_1}z_2 + 3z_2} + 7B_1 e^{2e^{b_1}z_2 + 2z_2} - 4B_1 e^{3e^{b_1}z_2 + z_2} - e^{4e^{b_1}z_2} + e^{e^{b_1}z_2 + 3z_2} - 2e^{e^{b_1}z_2 + 2z_2} + 2e^{e^{b_1}z_2 + z_2} + 2e^{3e^{b_1}z_2}} \right)} \right)$	
L_{11n180}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2}e^{3b_1}z_2} \right) - B_1 e^{\frac{5}{2}e^{3b_1}z_2} - e^{\frac{5}{2}e^{3b_1}z_2}}{-B_1^2 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} + B_1^2 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + B_1 e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - B_1 e^{2e^{3b_1}z_2 + \frac{z_2}{2}} - e^{e^{3b_1}z_2 + \frac{3z_2}{2}} - e^{2e^{3b_1}z_2 + \frac{z_2}{2}} + B_1^2 \left(-e^{\frac{5z_2}{2}} \right) - B_1 e^{\frac{5z_2}{2}} + e^{\frac{5z_2}{2}}} \right)} \right)$	$\left(\frac{1}{B_2^2 e^{e^{3b_2}z_1}} \right)_{(\{1\}, \{2\})}$
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TABLE OF VALUES
 z_{2-B_2}

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n181}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{B_1^2 e^{e^{3b_1} z_2 + 3z_2} - B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - B_1 e^{e^{3b_1} z_2 + 3z_2} + 3B_1 e^{2e^{3b_1} z_2 + 2z_2} - B_1 e^{3e^{3b_1} z_2 + z_2} + e^{4e^{3b_1} z_2} - 2e^{3b_1 z_2 + 2z_2} + e^{3e^{3b_1} z_2 + z_2} + B_1^2 e^{4z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 e^{e^{3b_1} z_2 + 3z_2}}{B_2^3 e^{e^{3b_2} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})}$
L_{11n182}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{3B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 3B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + 2B_1 e^{4e^{3b_1} z_2} - 5B_1 e^{e^{3b_1} z_2 + 3z_2} + 7B_1 e^{2e^{3b_1} z_2 + 2z_2} - 5B_1 e^{3e^{3b_1} z_2 + z_2} + e^{3b_1 z_2 + 3z_2} - 3e^{2e^{3b_1} z_2 + 2z_2} + 3e^{e^{3b_1} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 e^{e^{3b_1} z_2 + 3z_2}}{B_2^3 e^{e^{3b_2} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})}$
L_{11n183}	$\left(\left(-\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + z_2} - 3B_1 e^{2e^{b_1} z_2} + 7B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 4e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - 3B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(-\frac{B_1 e^{e^{b_1} z_2 + z_2}}{2B_2^2 e^{2e^{b_2} z_2} - 3B_2^2 e^{e^{b_2} z_2 + z_1} - 4B_2 e^{e^{b_2} z_2 + z_1} + 2e^{e^{b_2} z_2 + z_1}} \right)_{(\{1\}, \{2\})}$
L_{11n184}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{e^{3b_1} z_2 + 3z_2} + 2B_1 e^{4e^{3b_1} z_2} - 2B_1 e^{e^{3b_1} z_2 + 3z_2} + B_1 e^{2e^{3b_1} z_2 + 2z_2} - 2B_1 e^{3e^{3b_1} z_2 + z_2} - e^{4e^{3b_1} z_2} + 2e^{3e^{3b_1} z_2 + z_2} + B_1^2 (-e^{4z_2}) + 2B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1^2 e^{e^{3b_1} z_2 + 3z_2}}{2B_2^4 e^{e^{3b_2} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})}$
L_{11n185}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2}{2}}}{2B_1^2 e^{2e^{b_1} z_2} - 3B_1^2 e^{e^{b_1} z_2 + z_2} - 2B_1 e^{2e^{b_1} z_2} + 5B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 3e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - 2B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1 e^{e^{b_1} z_2 + z_2}}{2B_2^2 e^{2e^{b_2} z_2} - 2B_2^2 e^{e^{b_2} z_2 + z_1} - 3B_2 e^{e^{b_2} z_2 + z_1} + 2e^{e^{b_2} z_2 + z_1}} \right)_{(\{1\}, \{2\})}$
L_{11n186}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + 2B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - B_1 e^{4e^{b_1} z_2} + 3B_1 e^{e^{b_1} z_2 + 3z_2} - 5B_1 e^{2e^{b_1} z_2 + 2z_2} + 3B_1 e^{3e^{b_1} z_2 + z_2} - 2e^{e^{b_1} z_2 + 3z_2} + 2e^{2e^{b_1} z_2 + 2z_2} - e^{e^{b_1} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1 e^{e^{b_1} z_2 + 3z_2}}{B_2^3 e^{e^{3b_2} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})}$
L_{11n187}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{-b_1} z_2 + \frac{5z_2}{2}}}{-2B_1^2 e^{e^{-b_1} z_2 + 3z_2} + 3B_1^2 e^{2e^{-b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{-b_1} z_2 + z_2} - B_1 e^{4e^{-b_1} z_2} + 4B_1 e^{e^{-b_1} z_2 + 3z_2} - 5B_1 e^{2e^{-b_1} z_2 + 2z_2} + 4B_1 e^{3e^{-b_1} z_2 + z_2} + e^{4e^{-b_1} z_2} - 2e^{e^{-b_1} z_2 + 3z_2} + 2e^{2e^{-b_1} z_2 + 2z_2} - e^{e^{-b_1} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1 e^{e^{-b_1} z_2 + 3z_2}}{B_2^3 e^{e^{3b_2} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})}$
L_{11n188}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2}{2}}}{2B_1^2 e^{e^{b_1} z_2 + 3z_2} - 3B_1^2 e^{2e^{b_1} z_2 + 2z_2} + 2B_1^2 e^{3e^{b_1} z_2 + z_2} + B_1 e^{4e^{b_1} z_2} - 5B_1 e^{e^{b_1} z_2 + 3z_2} + 7B_1 e^{2e^{b_1} z_2 + 2z_2} - 5B_1 e^{3e^{b_1} z_2 + z_2} - e^{4e^{b_1} z_2} + 2e^{e^{b_1} z_2 + 3z_2} - 3e^{2e^{b_1} z_2 + 2z_2} + 2e^{e^{b_1} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_1 e^{e^{b_1} z_2 + 3z_2}}{B_2^3 e^{e^{3b_2} z_2 + 3z_2}} \right)_{(\{1\}, \{2\})}$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n189}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 2B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} - 2B_1 e^{e^{3b_1} z_2 + 3z_2} + 5B_1 e^{2e^{3b_1} z_2 + 2z_2} - 2B_1 e^{3e^{3b_1} z_2 + z_2} + e^{4e^{3b_1} z_2} + e^{3b_1} z_2 + 3z_2 - 2e^{2e^{3b_1} z_2 + 2z_2} + e^{3e^{3b_1} z_2 + z_2}} \right) \right)$
L_{11n190}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{-3B_1^2 e^{e^{3b_1} z_2 + 3z_2} + 4B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - B_1^2 e^{3e^{3b_1} z_2 + z_2} + 4B_1 e^{e^{3b_1} z_2 + 3z_2} - 7B_1 e^{2e^{3b_1} z_2 + 2z_2} + 4B_1 e^{3e^{3b_1} z_2 + z_2} + e^{4e^{3b_1} z_2} - e^{3b_1} z_2 + 3z_2 + 4e^{2e^{3b_1} z_2 + 2z_2} - 3e^{3e^{3b_1} z_2 + z_2}} \right) \right)$
L_{11n191}	$\left(\left(- \frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3z_2^2}{2}}}{B_1^2 e^{4e^{b_1} z_2} - B_1^2 e^{e^{b_1} z_2 + 3z_2} + B_1^2 e^{2e^{b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{b_1} z_2 + z_2} - 2B_1 e^{4e^{b_1} z_2} + 2B_1 e^{e^{b_1} z_2 + 3z_2} - B_1 e^{2e^{b_1} z_2 + 2z_2} + 2B_1 e^{3e^{b_1} z_2 + z_2} + e^{4e^{b_1} z_2} - 2e^{e^{b_1} z_2 + 3z_2} + e^{2e^{b_1} z_2 + 2z_2}} \right) \right)$
L_{11n192}	$\left(\left(\frac{B_1 e^{\frac{1}{2} e^{-b_1} z_2 + \frac{3z_2^2}{2}}}{2B_1^2 e^{2e^{-b_1} z_2} - 3B_1^2 e^{e^{-b_1} z_2 + z_2} - 3B_1 e^{2e^{-b_1} z_2} + 7B_1 e^{e^{-b_1} z_2 + z_2} + e^{2e^{-b_1} z_2} - 3e^{e^{-b_1} z_2 + z_2} + B_1^2 e^{2z_2} - 3B_1 e^{2z_2} + 2e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{2B_2^2 e^{2e^{-b_2} z_1} - 3B_2^2 e^{e^{-b_2} z_1 + z_1} - 4B_2 e^{3e^{-b_2} z_1} + 3e^{2e^{-b_2} z_1 + z_1}}{2B_2^2 e^{2e^{-b_2} z_1} - 3B_2^2 e^{e^{-b_2} z_1 + z_1} - 4B_2 e^{3e^{-b_2} z_1} + 3e^{2e^{-b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})}$
L_{11n193}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} \right) - B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} - e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{3B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 4B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 5B_1 e^{e^{3b_1} z_2 + 3z_2} + 7B_1 e^{2e^{3b_1} z_2 + 2z_2} - 5B_1 e^{3e^{3b_1} z_2 + z_2} - e^{4e^{3b_1} z_2} + e^{3b_1} z_2 + 3z_2 - 4e^{2e^{3b_1} z_2 + 2z_2} + e^{3e^{3b_1} z_2 + z_2}} \right) \right)$
L_{11n194}	$\left(\left(\frac{B_1 e^{\frac{3}{2} e^{b_1} z_2 + \frac{z_2^2}{2}}}{3B_1^2 e^{2e^{b_1} z_2} - 4B_1^2 e^{e^{b_1} z_2 + z_2} - 4B_1 e^{2e^{b_1} z_2} + 9B_1 e^{e^{b_1} z_2 + z_2} + e^{2e^{b_1} z_2} - 4e^{e^{b_1} z_2 + z_2} + B_1^2 e^{2z_2} - 4B_1 e^{2z_2} + 3e^{2z_2}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{3B_2^2 e^{2e^{b_2} z_1} - 4B_2^2 e^{e^{b_2} z_1 + z_1} - 4B_2 e^{3e^{b_2} z_1} + 3e^{2e^{b_2} z_1 + z_1}}{3B_2^2 e^{2e^{b_2} z_1} - 4B_2^2 e^{e^{b_2} z_1 + z_1} - 4B_2 e^{3e^{b_2} z_1} + 3e^{2e^{b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})}$
L_{11n195}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{B_1^2 e^{4e^{3b_1} z_2} - B_1^2 e^{e^{3b_1} z_2 + 3z_2} + 3B_1^2 e^{2e^{3b_1} z_2 + 2z_2} - 2B_1^2 e^{3e^{3b_1} z_2 + z_2} - B_1 e^{4e^{3b_1} z_2} + 4B_1 e^{e^{3b_1} z_2 + 3z_2} - 5B_1 e^{2e^{3b_1} z_2 + 2z_2} + 4B_1 e^{3e^{3b_1} z_2 + z_2} - 2e^{4e^{3b_1} z_2} + e^{3b_1} z_2 + 3z_2 - 3e^{2e^{3b_1} z_2 + 2z_2} + e^{3e^{3b_1} z_2 + z_2}} \right) \right)$
L_{11n196}	$\left(\left(\frac{B_1^2 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{7}{2} e^{3b_1} z_2 + \frac{z_2^2}{2}}}{4B_1^2 e^{e^{3b_1} z_2 + 3z_2} - 3B_1^2 e^{2e^{3b_1} z_2 + 2z_2} + B_1^2 e^{3e^{3b_1} z_2 + z_2} + B_1 e^{4e^{3b_1} z_2} - 4B_1 e^{e^{3b_1} z_2 + 3z_2} + 7B_1 e^{2e^{3b_1} z_2 + 2z_2} - 4B_1 e^{3e^{3b_1} z_2 + z_2} - e^{4e^{3b_1} z_2} + e^{3b_1} z_2 + 3z_2 - 3e^{2e^{3b_1} z_2 + 2z_2} + e^{3e^{3b_1} z_2 + z_2}} \right) \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n197}	$\left(\left(-\frac{B_1 e^{\frac{5}{2} e^{b_1} z_2 + \frac{3}{2} z_2}}{B_1^2 e^{2e^{b_1} z_2 + 2z_2} + B_1 e^{4e^{b_1} z_2} - B_1 e^{e^{b_1} z_2 + 3z_2} - B_1 e^{2e^{b_1} z_2 + 2z_2} - B_1 e^{3e^{b_1} z_2 + z_2} - e^{4e^{b_1} z_2} + e^{2e^{b_1} z_2 + 2z_2} + B_1^2 (-e^{4z_2}) + B_1 e^{4z_2}} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^4 e^{e^{b_2} z_1 + z_1} - B_2^2 e^{2e^{b_2} z_1 + 2z_1} + B_2^2 e^{e^{b_2} z_1 + z_1}}{B_2^4 e^{e^{b_2} z_1 + z_1} - B_2^2 e^{2e^{b_2} z_1 + 2z_1} + B_2^2 e^{e^{b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n198}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{2e^{2b_1} z_2 + z_2} + B_1^2 e^{3e^{2b_1} z_2 + 2z_2} + 2B_1^2 e^{2e^{2b_1} z_2 + 2z_2} - 2B_1^2 e^{2e^{2b_1} z_2 + z_2} - B_1 e^{3e^{2b_1} z_2} - 2B_1 e^{e^{2b_1} z_2 + 2z_2} + 2B_1 e^{2e^{2b_1} z_2 + z_2} + e^{2b_1} z_2 + 2z_2 - B_1^2 e^{3z_2} + B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n199}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{4e^{4b_1} z_2 + 2z_2} + B_1^2 e^{5e^{4b_1} z_2} + B_1^2 e^{2e^{4b_1} z_2 + 3z_2} - B_1^2 e^{4e^{4b_1} z_2 + z_2} - B_1 e^{e^{4b_1} z_2 + 4z_2} + B_1 e^{3e^{4b_1} z_2 + 2z_2} + e^{e^{4b_1} z_2 + 4z_2} + B_1 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^5 e^{2e^{4b_2} z_1 + \frac{3z_1}{2}} - B_2^2 e^{e^{4b_2} z_1 + z_1}}{B_2^5 e^{2e^{4b_2} z_1 + \frac{3z_1}{2}} - B_2^2 e^{e^{4b_2} z_1 + z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n200}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 (-e^{2e^{b_1} z_2 + 2z_2}) + B_1^3 e^{2e^{2b_1} z_2 + z_2} + B_1^2 e^{3e^{2b_1} z_2 + 3z_2} + 3B_1^2 e^{e^{2b_1} z_2 + 2z_2} - 2B_1^2 e^{2e^{2b_1} z_2 + z_2} - B_1 e^{3e^{2b_1} z_2} - 2B_1 e^{e^{2b_1} z_2 + 2z_2} + 3B_1 e^{2e^{2b_1} z_2 + z_2} + e^{2e^{b_1} z_2 + 2z_2} - e^{2e^{2b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n201}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{4e^{4b_1} z_2 + 4z_2} - 2B_1^2 e^{e^{4b_1} z_2 + 4z_2} + 2B_1^2 e^{2e^{4b_1} z_2 + 3z_2} - B_1^2 e^{3e^{4b_1} z_2 + 2z_2} + B_1^2 e^{4e^{4b_1} z_2 + z_2} + B_1 e^{5e^{4b_1} z_2} + B_1 e^{e^{4b_1} z_2 + 4z_2} - B_1 e^{2e^{4b_1} z_2 + 3z_2} + 2B_1 e^{3e^{4b_1} z_2 + 2z_2} - 2B_1 e^{e^{4b_1} z_2 + 4z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n202}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - B_1^3 z_2 - B_1 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - B_2^3 z_1 - B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n203}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 + B_1^3 z_2 - 4B_1^2 z_2 + B_1 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 + B_2^3 z_1 - 4B_2^2 z_1 + B_2 z_1 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n204}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{5e^{4b_1} z_2} + B_1^2 e^{3e^{4b_1} z_2 + 2z_2} + B_1 e^{2e^{4b_1} z_2 + 3z_2} + e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{7}{2} e^{4b_2} z_1} + B_2^3 e^{\frac{7}{2} e^{4b_2} z_1} + B_2^2 e^{\frac{7}{2} e^{4b_2} z_1} + B_2 e^{\frac{7}{2} e^{4b_2} z_1}}{B_2^5 e^{3e^{4b_2} z_1 + \frac{z_1}{2}} + B_2^3 e^{2e^{4b_2} z_1 + \frac{3z_1}{2}} + B_2^2 e^{e^{4b_2} z_1 + \frac{5z_1}{2}} + e^{\frac{7z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n205}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{2e^{4b_1} z_2 + 3z_2} + B_1 e^{5e^{4b_1} z_2} + e^{3e^{4b_1} z_2 + 2z_2} + B_1^2 e^{5z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{7}{2} e^{4b_2} z_1} + B_2^3 e^{\frac{7}{2} e^{4b_2} z_1} + B_2^2 e^{\frac{7}{2} e^{4b_2} z_1} + B_2 e^{\frac{7}{2} e^{4b_2} z_1}}{B_2^5 e^{e^{4b_2} z_1 + \frac{5z_1}{2}} + B_2^2 e^{3e^{4b_2} z_1 + \frac{z_1}{2}} + e^{2e^{4b_2} z_1 + \frac{3z_1}{2}} + B_2^3 e^{\frac{7z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

TABLE OF VALUES

Table B.1 – continued from previous page

Column 1	Column 2	
L_{11n206}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - 2B_1^2 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 2B_2^2 z_1 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$	
L_{11n207}	$\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} + B_1^3 e^{2b_1 z_2 + 2z_2} - 2B_1^3 e^{2b_1 z_2 + z_2} - B_1^2 e^{3e^{2b_1} z_2} - 4B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 6B_1^2 e^{2e^{2b_1} z_2 + z_2} + 6B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{2b_1 z_2 + 2z_2} + e^{2e^{2b_1} z_2 + z_2}} \right)$	$e^{2b_1 z_2 + 2z_2} + e^{2e^{2b_1} z_2 + z_2}$
L_{11n208}	$\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} - B_1^2 e^{3e^{2b_1} z_2} + B_1^2 e^{2e^{2b_1} z_2 + z_2} + B_1 e^{e^{2b_1} z_2 + 2z_2} - B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{5}{2} e^{2b_2} z_1 + \frac{z_1}{2}} + B_2 e^{\frac{5}{2} e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^3 e^{3e^{2b_2} z_1} - B_2^3 e^{2e^{2b_2} z_1 + z_1} + B_2^2 e^{2e^{2b_2} z_1 + z_1} - B_2 e^{e^{2b_2} z_1 + 2z_1} - e^{e^{2b_2} z_1 + z_1}} \right)_{(\{2\}, \{1\})} \right)$	
L_{11n209}	$\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} - B_1^3 e^{2e^{2b_1} z_2 + z_2} - B_1^2 e^{3e^{2b_1} z_2} - 2B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 4B_1^2 e^{2e^{2b_1} z_2 + z_2} + 4B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} - e^{2b_1 z_2 + 2z_2} - B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2 e^{\frac{5}{2} e^{2b_2} z_1 + \frac{z_1}{2}} + B_2 e^{\frac{5}{2} e^{2b_2} z_1 + \frac{z_1}{2}}}{B_2^3 e^{3e^{2b_2} z_1} - B_2^3 e^{2e^{2b_2} z_1 + z_1} + B_2^2 e^{2e^{2b_2} z_1 + z_1} - B_2 e^{e^{2b_2} z_1 + 2z_1} - e^{e^{2b_2} z_1 + z_1}} \right)_{(\{2\}, \{1\})} \right)$	
L_{11n210}	$\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{2e^{4b_1} z_2 + 3z_2} + B_1^2 e^{5e^{4b_1} z_2} + B_1^2 e^{e^{4b_1} z_2 + 4z_2} - B_1^2 e^{2e^{4b_1} z_2 + 3z_2} + B_1^2 e^{3e^{4b_1} z_2 + 2z_2} - B_1^2 e^{4e^{4b_1} z_2 + z_2} - B_1 e^{e^{4b_1} z_2 + 4z_2} + B_1 e^{2e^{4b_1} z_2 + 3z_2} - B_1 e^{3e^{4b_1} z_2 + 2z_2} + B_1 e^{e^{4b_1} z_2 + z_2}} \right)$	
L_{11n211}	$\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{2e^{4b_1} z_2 + 3z_2} + B_1^2 e^{5e^{4b_1} z_2} + 2B_1^2 e^{e^{4b_1} z_2 + 4z_2} - 3B_1^2 e^{2e^{4b_1} z_2 + 3z_2} + 3B_1^2 e^{3e^{4b_1} z_2 + 2z_2} - 2B_1^2 e^{4e^{4b_1} z_2 + z_2} - 2B_1 e^{e^{4b_1} z_2 + 4z_2} + 3B_1 e^{2e^{4b_1} z_2 + 3z_2} - 3B_1 e^{3e^{4b_1} z_2 + 2z_2} + B_1 e^{e^{4b_1} z_2 + z_2}} \right)$	
L_{11n212}	$\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{2e^{4b_1} z_2 + 3z_2} + B_1^2 e^{5e^{4b_1} z_2} + 2B_1^2 e^{e^{4b_1} z_2 + 4z_2} - 2B_1^2 e^{2e^{4b_1} z_2 + 3z_2} + 2B_1^2 e^{3e^{4b_1} z_2 + 2z_2} - 2B_1^2 e^{4e^{4b_1} z_2 + z_2} - 2B_1 e^{e^{4b_1} z_2 + 4z_2} + 2B_1 e^{2e^{4b_1} z_2 + 3z_2} - 2B_1 e^{3e^{4b_1} z_2 + 2z_2} + B_1 e^{e^{4b_1} z_2 + z_2}} \right)$	
L_{11n213}	$\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} - 2B_1^3 e^{2e^{2b_1} z_2 + z_2} - B_1^2 e^{3e^{2b_1} z_2} - 2B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 3B_1^2 e^{2e^{2b_1} z_2 + z_2} + 3B_1 e^{e^{2b_1} z_2 + 2z_2} - 2B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{2b_1 z_2 + 2z_2} - B_1 e^{3z_2} + e^{3z_2}} \right)_{(\{1\}, \{2\})}$	
L_{11n214}	$\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} + B_1^3 e^{e^{2b_1} z_2 + 2z_2} - 3B_1^3 e^{2e^{2b_1} z_2 + z_2} - B_1^2 e^{3e^{2b_1} z_2} - 4B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 5B_1^2 e^{2e^{2b_1} z_2 + z_2} + 5B_1 e^{e^{2b_1} z_2 + 2z_2} - 4B_1 e^{2e^{2b_1} z_2 + z_2} - 3e^{e^{2b_1} z_2 + 2z_2} + e^{2e^{2b_1} z_2 + z_2}} \right)$	
	Continued on next page	TABLE OF VALUES

Continued on next page

TABLE OF MATRICES	z_2
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n215}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2^2}{2}} \right) - B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2^2}{2}}}{-2B_1^3 e^{e^{2b_1}z_2 + 2z_2} + B_1^3 e^{2e^{2b_1}z_2 + z_2} + B_1^2 e^{3e^{2b_1}z_2 + 4B_1^2 e^{2b_1}z_2 + 2z_2} - 4B_1^2 e^{2e^{2b_1}z_2 + z_2} - B_1 e^{3e^{2b_1}z_2 - 4B_1 e^{2b_1}z_2 + 2z_2} + 4B_1 e^{2e^{2b_1}z_2 + z_2} + e^{2b_1}z_2 + 2z_2 - 2e^{2e^{2b_1}z_2 + z_2}} \right)} \right)$
L_{11n216}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - 2B_1^3 z_2 + 2B_1^2 z_2 - 2B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n217}	$\left(\left(-\frac{B_1^2}{B_1^4 z_2 - B_1^3 z_2 - B_1^2 z_2 - B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{2B_2^4 z_1 - 5B_2^3 z_1 + 6B_2^2 z_1 - 5B_2 z_1 - B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n218}	$\left(\left(-\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 - B_1^2 + B_1 + 4z_2 - 1} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n219}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1^2 + B_1 + 3z_2 - 1} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2^2}{B_2^4 z_1 - B_2^3 z_1 - B_2 z_1 - B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n220}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2^2}{2}} + B_1^2 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2^2}{2}} + e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2^2}{2}}}{B_1^3 e^{4e^{4b_1}z_2 + z_2} + B_1^2 e^{5e^{4b_1}z_2 + B_1^2 e^{3e^{4b_1}z_2 + 2z_2} - B_1^2 e^{4e^{4b_1}z_2 + z_2} - B_1 e^{e^{4b_1}z_2 + 4z_2} + B_1 e^{2e^{4b_1}z_2 + 3z_2} + e^{e^{4b_1}z_2 + 4z_2} + B_1 e^{5z_2}} \right)} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{7}{2}e^{4b_2}z_1 + \frac{3z_1^2}{2}} - B_2^5 e^{2e^{4b_2}z_1 + \frac{3z_1^2}{2}} - B_2^3 e^{e^{4b_2}z_1 + \frac{3z_1^2}{2}}}{B_2^5 e^{3e^{4b_2}z_1 + \frac{z_1^2}{2}} - B_2^3 e^{e^{4b_2}z_1 + \frac{5z_1^2}{2}} + 2B_2^3 e^{2e^{4b_2}z_1 + \frac{z_1^2}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n221}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{5}{2}e^{2b_1}z_2 + \frac{z_2^2}{2}}}{B_1^3 \left(-e^{2e^{2b_1}z_2 + 2z_2} \right) + B_1^3 e^{2e^{2b_1}z_2 + z_2} + 2B_1^2 e^{3e^{2b_1}z_2 + 6B_1^2 e^{2b_1}z_2 + 2z_2} - 6B_1^2 e^{2e^{2b_1}z_2 + z_2} - B_1 e^{3e^{2b_1}z_2 - 6B_1 e^{2b_1}z_2 + 2z_2} + 6B_1 e^{2e^{2b_1}z_2 + z_2} + e^{2b_1}z_2 + 2z_2 - e^{2e^{2b_1}z_2 + z_2}} \right)} \right)$
L_{11n222}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2^2}{2}} + B_1^2 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2^2}{2}} + e^{\frac{9}{2}e^{4b_1}z_2 + \frac{z_2^2}{2}}}{B_1^3 e^{5e^{4b_1}z_2 - B_1^2 e^{2e^{4b_1}z_2 + 3z_2} + 2B_1^2 e^{3e^{4b_1}z_2 + 2z_2} + 2B_1 e^{2e^{4b_1}z_2 + 3z_2} - B_1 e^{3e^{4b_1}z_2 + 2z_2} + e^{5z_2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^4 e^{\frac{7}{2}e^{4b_2}z_1 + \frac{3z_1^2}{2}} + B_2^3 e^{\frac{7}{2}e^{4b_2}z_1 + \frac{3z_1^2}{2}}}{B_2^5 e^{3e^{4b_2}z_1 + \frac{z_1^2}{2}} - B_2^3 e^{e^{4b_2}z_1 + \frac{5z_1^2}{2}} + 2B_2^3 e^{2e^{4b_2}z_1 + \frac{z_1^2}{2}}} \right)_{(\{2\}, \{1\})} \right)$
L_{11n223}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 + 2B_1^3 z_2 - 6B_1^2 z_2 + 2B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 2B_2^3 z_1 - 2B_2 z_1 + B_2^3 - B_2^2 + B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
Continued on next page	

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n224}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + 2B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} + B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} - B_1 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} + 2B_1 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - B_1 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} - B_1^2 e^{-\frac{7z_2}{2}} + B_1 e^{-\frac{7z_2}{2}} + e^{-\frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n225}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 + B_1^3 z_2 - 4B_1^2 z_2 + B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 3B_2^3 z_1 + 2B_2^2 z_1 - 3B_2 z_1 + B_2^3 - B_2^2 + B_2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n226}	$\left(\left(\frac{B_1}{4B_1^2 z_2 - 8B_1 z_2 + B_1^2 - B_1 + 4z_2 + 1} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n227}	$\left(\left(-\frac{B_1}{3B_1^2 z_2 - 6B_1 z_2 - B_1 + 3z_2} \right)_{(\{1\}, \{2\})}, \left(-\frac{B_2}{3B_2^2 z_1 - 6B_2 z_1 - B_2 + 3z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n228}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} - B_1^3 e^{2e^{2b_1} z_2 + z_2} + B_1^2 e^{3e^{2b_1} z_2} + 2B_1^2 e^{e^{2b_1} z_2 + 2z_2} - B_1^2 e^{2e^{2b_1} z_2 + z_2} - B_1 e^{3e^{2b_1} z_2} - B_1 e^{e^{2b_1} z_2 + 2z_2} + 2B_1 e^{2e^{2b_1} z_2 + z_2} - e^{e^{2b_1} z_2 + 2z_2} - B_1^2 e^{3z_2} + B_1 e^{3z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n229}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 \left(-e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} \right) + 2B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + 2B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2}{2}} - B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2}{2}} + 2B_1 e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - e^{e^{4b_1} z_2 + \frac{5z_2}{2}} - B_1 e^{-\frac{7z_2}{2}} + 2e^{-\frac{7z_2}{2}}} \right)_{(\{1\}, \{2\})} \right), \left(\frac{B_2^3 \left(-e^{2e^{4b_1} z_2} \right)}{B_2^3 \left(-e^{2e^{4b_1} z_2} \right)} \right)_{(\{1\}, \{2\})}$
L_{11n230}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2}{2}}}{B_1^3 \left(-e^{2e^{2b_1} z_2 + 2z_2} \right) + B_1^3 e^{2e^{2b_1} z_2 + z_2} + 2B_1^2 e^{3e^{2b_1} z_2} + 5B_1^2 e^{e^{2b_1} z_2 + 2z_2} - 4B_1^2 e^{2e^{2b_1} z_2 + z_2} - 2B_1 e^{3e^{2b_1} z_2} - 4B_1 e^{e^{2b_1} z_2 + 2z_2} + 5B_1 e^{2e^{2b_1} z_2 + z_2} + e^{e^{2b_1} z_2 + 2z_2} - e^{2e^{2b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n231}	$\left(\left(\frac{B_1^2 e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}} + B_1 e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}}}{B_1^3 e^{3e^{-2b_1} z_2} - B_1^3 e^{2e^{-2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{-2b_1} z_2} - 3B_1^2 e^{e^{-2b_1} z_2 + 2z_2} + 5B_1^2 e^{2e^{-2b_1} z_2 + z_2} + B_1 e^{3e^{-2b_1} z_2} + 5B_1 e^{e^{-2b_1} z_2 + 2z_2} - 3B_1 e^{2e^{-2b_1} z_2 + z_2} - e^{e^{-2b_1} z_2 + 2z_2} + B_1 e^{e^{-2b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n232}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}} \right) - B_1 e^{\frac{1}{2} e^{-2b_1} z_2 + \frac{5z_2}{2}}}{-B_1^3 e^{e^{-2b_1} z_2 + 2z_2} + B_1^2 e^{3e^{-2b_1} z_2} + B_1^2 e^{e^{-2b_1} z_2 + 2z_2} - B_1^2 e^{2e^{-2b_1} z_2 + z_2} - 2B_1 e^{3e^{-2b_1} z_2} - B_1 e^{e^{-2b_1} z_2 + 2z_2} + B_1 e^{2e^{-2b_1} z_2 + z_2} + e^{3e^{-2b_1} z_2} - e^{e^{-2b_1} z_2 + 2z_2} - e^{e^{-2b_1} z_2 + z_2}} \right)_{(\{1\}, \{2\})} \right)$
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Table B.1 – continued from previous page

Column 1	Column 2
L_{11n233}	$\left(\left(\frac{B_1^3 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2^2}{2}} + B_1^2 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2^2}{2}} + e^{\frac{9}{2} e^{4b_1} z_2 + \frac{z_2^2}{2}}}{B_1^3 e^{5e^{4b_1} z_2} + B_1^2 e^{e^{4b_1} z_2 + 4z_2} - 2B_1^2 e^{2e^{4b_1} z_2 + 3z_2} + 3B_1^2 e^{3e^{4b_1} z_2 + 2z_2} - B_1^2 e^{4e^{4b_1} z_2 + z_2} - B_1 e^{e^{4b_1} z_2 + 4z_2} + 3B_1 e^{2e^{4b_1} z_2 + 3z_2} - 2B_1 e^{3e^{4b_1} z_2 + 2z_2} + B_1 e^{4e^{4b_1} z_2 + z_2} + e^{5e^{4b_1} z_2}} \right) \right)$
L_{11n234}	$\left(\left(\frac{B_1}{5B_1^2 z_2 - 10B_1 z_2 + B_1 + 5z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 + B_2^3 z_1 - 4B_2^2 z_1 + B_2 z_1 + B_2^2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n235}	$\left(\left(\frac{B_1^3 \left(-e^{\frac{7}{2} e^{4b_1} z_2} \right) - B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} - B_1 e^{\frac{7}{2} e^{4b_1} z_2} - e^{\frac{7}{2} e^{4b_1} z_2}}{-2B_1^3 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} + B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + B_1^2 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - B_1 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} - 2e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - B_1^2 e^{\frac{7z_2^2}{2}} - B_1 e^{\frac{7z_2^2}{2}} + e^{\frac{7z_2^2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n236}	$\left(\left(\frac{B_1^3 e^{\frac{7}{2} e^{4b_1} z_2} + B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} + B_1 e^{\frac{7}{2} e^{4b_1} z_2} + e^{\frac{7}{2} e^{4b_1} z_2}}{B_1^3 \left(-e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} \right) + 2B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + 2B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + 2B_1 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - B_1 e^{\frac{7z_2^2}{2}} + 2e^{\frac{7z_2^2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 \left(-e^{2e^{4b_1} z_1} \right)}{B_2^3 \left(-e^{2e^{4b_1} z_1} \right)} \right)_{(\{1\}, \{2\})} \right)$
L_{11n237}	$\left(\left(\frac{B_1^3 \left(-e^{\frac{7}{2} e^{4b_1} z_2} \right) - B_1^2 e^{\frac{7}{2} e^{4b_1} z_2} - B_1 e^{\frac{7}{2} e^{4b_1} z_2} - e^{\frac{7}{2} e^{4b_1} z_2}}{-2B_1^3 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} + B_1^3 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + B_1^2 e^{e^{4b_1} z_2 + \frac{5z_2^2}{2}} - 2B_1^2 e^{3e^{4b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - 2e^{2e^{4b_1} z_2 + \frac{3z_2^2}{2}} - 2B_1 e^{\frac{7z_2^2}{2}} + e^{\frac{7z_2^2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 \left(-e^{2e^{4b_1} z_1} \right)}{-2B_2^3 e^{2e^{4b_1} z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n238}	$\left(\left(\frac{B_1^2 \left(-e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} \right) - B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{B_1^3 e^{3e^{2b_1} z_2} - 2B_1^3 e^{2e^{2b_1} z_2 + z_2} - 2B_1^2 e^{3e^{2b_1} z_2} - 6B_1^2 e^{e^{2b_1} z_2 + 2z_2} + 6B_1^2 e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3e^{2b_1} z_2} + 6B_1 e^{e^{2b_1} z_2 + 2z_2} - 6B_1 e^{2e^{2b_1} z_2 + z_2} - 2e^{e^{2b_1} z_2 + 2z_2} + 2B_1^2 e^{3z_2}} \right) \right)$
L_{11n239}	$\left(\left(\frac{B_1^2 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}} + B_1 e^{\frac{5}{2} e^{2b_1} z_2 + \frac{z_2^2}{2}}}{2B_1^2 e^{e^{2b_1} z_2 + 2z_2} - 2B_1^2 e^{2e^{2b_1} z_2 + z_2} + 2B_1 e^{3e^{2b_1} z_2} - 2B_1 e^{e^{2b_1} z_2 + 2z_2} + 2B_1 e^{2e^{2b_1} z_2 + z_2} - e^{3e^{2b_1} z_2} + B_1^3 \left(-e^{3z_2} \right) + 2B_1^2 e^{3z_2}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^3 e^{2e^{4b_1} z_1 + 2z_1} - 2B_2^3 e^{2e^{4b_1} z_1 + z_1} + 2B_2^2 e^{3e^{4b_1} z_1} - 2B_2^2 e^{e^{4b_1} z_1 + 2z_1} + 2B_2 e^{2e^{4b_1} z_1} - 2B_2 e^{e^{4b_1} z_1 + z_1} + e^{3e^{4b_1} z_1}}{-2B_2^3 e^{2e^{4b_1} z_1 + 2z_1} - 2B_2^2 e^{3e^{4b_1} z_1} - 2B_2^2 e^{e^{4b_1} z_1 + 2z_1} - 2B_2 e^{2e^{4b_1} z_1} - 2B_2 e^{e^{4b_1} z_1 + z_1} + e^{3e^{4b_1} z_1}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n240}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 - 6B_1^3 z_2 + 10B_1^2 z_2 - 6B_1 z_2 - B_1^3 + 3B_1^2 - B_1 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 z_1 - 2B_2^3 z_1 + 2B_2^2 z_1 - 2B_2 z_1 - B_2^3 + B_2^2 - B_2 + z_1} \right)_{(\{2\}, \{1\})} \right)$
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Table B.1 – continued from previous page

TABLE OF VALUES

Table B.1 – continued from previous page

Column 1	Column 2
L_{11n251}	$\left(\left(\frac{B_1^2}{B_1^4 z_2 + B_1^3 z_2 - 4B_1^2 z_2 + B_1 z_2 + B_1^2 + z_2} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{2B_2^4 z_1 - 3B_2^3 z_1 + 2B_2^2 z_1 - 3B_2 z_1 + B_2^2 + 2z_1} \right)_{(\{2\}, \{1\})} \right)$
L_{11n252}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} - B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^2 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + B_1 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^2 e^{\frac{9z_2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n253}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^3 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - B_1^3 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1^3 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} - B_1 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + B_1 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + e^{e^{5b_1} z_2 + \frac{7z_2}{2}} + B_1 e^{\frac{9z_2}{2}}} \right)_{(\{1\}, \{2\})} \right)$
L_{11n254}	$\left(\left(\frac{B_1^4 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^3 e^{\frac{9}{2} e^{5b_1} z_2} + B_1^2 e^{\frac{9}{2} e^{5b_1} z_2} + B_1 e^{\frac{9}{2} e^{5b_1} z_2} + e^{\frac{9}{2} e^{5b_1} z_2}}{B_1^4 e^{4e^{5b_1} z_2 + \frac{z_2}{2}} + B_1^3 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + B_1^2 e^{e^{5b_1} z_2 + \frac{7z_2}{2}} - B_1^2 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + B_1^2 e^{3e^{5b_1} z_2 + \frac{3z_2}{2}} + B_1 e^{2e^{5b_1} z_2 + \frac{5z_2}{2}} + e^{\frac{9z_2}{2}}} \right)_{(\{1\}, \{2\})}, \left(\frac{B_2^2}{B_2^4 e^{4e^{5b_2} z_1 + \frac{z_1}{2}} + B_2^3 e^{2e^{5b_2} z_1 + \frac{z_1}{2}} + B_2^2 e^{e^{5b_2} z_1 + \frac{z_1}{2}} + B_2 e^{e^{5b_2} z_1 + \frac{z_1}{2}} + e^{e^{5b_2} z_1 + \frac{z_1}{2}}} \right)_{(\{2\}, \{1\})} \right)$

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