

## ERRATUM

Erratum to: New method for constructing semi-invariants and integrals of the full symmetric  $\mathfrak{sl}_n$  Toda lattice

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Equation (7) should be

$$L = \begin{pmatrix} b_1 & a_1 & 0 & \cdots & 0 \\ a_1 & b_2 & a_2 & \ddots & \vdots \\ 0 & a_2 & \ddots & \ddots & 0 \\ \vdots & \ddots & \ddots & \ddots & a_{n-1} \\ 0 & \cdots & 0 & a_{n-1} & b_n \end{pmatrix}.$$

Equation (8) should be

$$B = \begin{pmatrix} 0 & -a_1 & 0 & \cdots & 0 \\ a_1 & 0 & -a_2 & \ddots & \vdots \\ 0 & a_2 & \ddots & \ddots & 0 \\ \vdots & \ddots & \ddots & \ddots & -a_{n-1} \\ 0 & \cdots & 0 & a_{n-1} & 0 \end{pmatrix}.$$

Equation (17) should be

$$\begin{aligned} B = L_{>0} - L_{<0} &= (\psi \Lambda \psi^T)_{>0} - (\psi \Lambda \psi^T)_{<0} = \\ &= \begin{pmatrix} 0 & a_{12} & a_{13} & \cdots & a_{1n} \\ -a_{12} & 0 & a_{23} & \ddots & \vdots \\ -a_{13} & -a_{23} & \ddots & \ddots & a_{n-2,n} \\ \vdots & \ddots & \ddots & \ddots & a_{n-1,n} \\ -a_{1n} & \cdots & -a_{n-2,n} & -a_{n-1,n} & 0 \end{pmatrix}. \end{aligned}$$

Equation (28) should be

$$B_d = (L^{d-1})_{>0} - (L^{d-1})_{<0} =$$

$$= \begin{pmatrix} 0 & a_{12}^{(d-1)} & a_{13}^{(d-1)} & \cdots & a_{1n}^{(d-1)} \\ -a_{12}^{(d-1)} & 0 & a_{23}^{(d-1)} & \ddots & \vdots \\ -a_{13}^{(d-1)} & -a_{23}^{(d-1)} & \ddots & \ddots & a_{n-2,n}^{(d-1)} \\ \vdots & \ddots & \ddots & \ddots & a_{n-1,n}^{(d-1)} \\ -a_{1n}^{(d-1)} & \cdots & -a_{n-2,n}^{(d-1)} & -a_{n-1,n}^{(d-1)} & 0 \end{pmatrix}.$$

Equation (102) should be

$$X = \begin{pmatrix} x_{11} & 1 & 0 & \cdots & 0 \\ x_{21} & x_{22} & 1 & \ddots & \vdots \\ x_{31} & x_{32} & \ddots & \ddots & 0 \\ \vdots & \vdots & \ddots & \ddots & 1 \\ x_{n1} & x_{n2} & \cdots & x_{n,n-1} & x_{nn} \end{pmatrix},$$

$$X = \epsilon + \beta_-, \quad X \in \mathfrak{sl}_n(\mathbb{C}).$$

Equation (103) should be

$$C = \begin{pmatrix} 0 & 1 & 0 & \cdots & 0 \\ 0 & 0 & 1 & \ddots & \vdots \\ \vdots & \ddots & \ddots & \ddots & 0 \\ 0 & \cdots & 0 & \ddots & 1 \\ s_n & s_{n-1} & \cdots & s_2 & 0 \end{pmatrix}.$$

The editorial staff apologizes to the authors.