Automorphisms of real four-dimensional Lie algebras and the invariant characterization of homogeneous 4-spaces

2003 J. Phys. A: Math. Gen. 36 2379

(http://iopscience.iop.org/0305-4470/36/9/501)

INSTITUTE OF PHYSICS PUBLISHING JOURNAL OF PHYSICS A: MATHEMATICAL AND GENERAL

J. Phys. A: Math. Gen. **36** (2003) 2379 www.iop.org/Journals/ja PII: S0305-4470(03)58946-6

Corrigendum

Automorphisms of real four-dimensional Lie algebras and the invariant characterization of homogeneous 4-spaces

T Christodoulakis, G O Papadopoulos and A Dimakis 2003 *J. Phys. A: Math. Gen.* **36** 427–441

Rows 14 and 15 of table 1, should read:

$A^{\alpha}_{4,2}$	$C^1_{14} = \alpha\ C^2_{24} = 1\ C^2_{34} = 1$		
$\alpha \neq (0, 1)$	$C^3_{34} = 1$	$\begin{pmatrix} a_1 & 0 & 0 & a_4 \\ 0 & a_6 & a_7 & a_8 \\ 0 & 0 & a_6 & a_{12} \\ 0 & 0 & 0 & 1 \end{pmatrix}$	$\begin{pmatrix} g_1 & 0 & 0 & g_4 \\ 0 & g_6 & g_7 & g_8 \\ 0 & 0 & g_6 & g_{12} \\ 0 & 0 & 0 & 0 \end{pmatrix}$
$A^1_{4,2}$	$C^1_{14} = 1\ C^2_{24} = 1\ C^2_{34} = 1$		
	$C^3_{34} = 1$	$\begin{pmatrix} a_1 & 0 & a_3 & a_4 \\ a_5 & a_6 & a_7 & a_8 \\ 0 & 0 & a_6 & a_{12} \\ 0 & 0 & 0 & 1 \end{pmatrix}$	$\begin{pmatrix} g_1 & 0 & g_3 & g_4 \\ g_5 & g_6 & g_7 & g_8 \\ 0 & 0 & g_6 & g_{12} \\ 0 & 0 & 0 & 0 \end{pmatrix}$

Consequently rows 13 and 14 of table 2 become:

$A^{\alpha}_{4,2}$	$\begin{pmatrix} 1 & \gamma_{12} & \gamma_{13} & 0 \\ \gamma_{12} & 1 & 0 & 0 \\ \gamma_{13} & 0 & \gamma_{33} & 0 \\ 0 & 0 & 0 & \gamma_{44} \end{pmatrix}$	q^1, q^2, q^3, q^5
$A^1_{4,2}$	$\begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & \gamma_{33} & 0 \\ 0 & 0 & 0 & \gamma_{44} \end{pmatrix}$	q^1, q^2

The corrections concerning table 1 appear in 'Realizations of real low-dimensional Lie algebras' by Roman O Popovych, Vyacheslav M Boyko, Maryna O Nesterenko and Maxim W Lutfullin (math-ph/0301029).

