

Empty space-times with separable Hamilton-Jacobi equation

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Corrigendum

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The sixth entry in table 1 should read as follows:

$$S_1(x^1) + S_2(x^2) + kx^3 + k'x^4 \quad \left(\begin{array}{cccc} \epsilon_1 & 0 & g^{13}(x^1) & g^{14}(x^1) \\ 0 & \epsilon_2 & g^{23}(x^1) & g^{24}(x^1) \\ g^{13}(x^1) & g^{23}(x^1) & & \\ g^{14}(x^1) & g^{24}(x^1) & g_1^j(x^1) + g_2^j(x^2) & \end{array} \right) \quad \begin{array}{l} x^{1'} = \begin{cases} x^1 + \text{constant} & \text{if } \epsilon_1 = \pm 1 \\ x^1(x^1) & \text{if } \epsilon_1 = 0 \end{cases} \\ x^{2'} = \begin{cases} x^2 + \text{constant} & \text{if } \epsilon_2 = \pm 1 \\ x^2(x^2) & \text{if } \epsilon_2 = 0 \end{cases} \\ x^{3'} = x_1^{3'}(x^1) + x_2^{3'}(x^2) + cx^3 \\ x^{4'} = x_1^{4'}(x^1) + x_2^{4'}(x^2) + c^1x^4 \end{array}$$

When $\epsilon_1 \neq 0$ the allowable transformations can be used to set $g^{13} = g^{14} = 0$ and if $\epsilon_2 \neq 0$ the allowable transformations can be used to set $g^{23} = g^{24} = 0$. The original entry in table 1 corresponds to $\epsilon_1 \epsilon_2 \neq 0$. The authors would like to thank Dr I Hauser for pointing out the possibility of this error.