

## ERRATUM

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**M. Przanowski, J. Tosiek,** The Weyl–Wigner–Moyal Formalism. III. The Generalized Moyal Product in the Curved Phase Space *Acta Phys. Pol. B* **B30**, 179 (1999).

In our previous paper published recently in the *Acta Physica Polonica B* there are some misprints which may lead to severe misunderstanding. First, the formula (62) should read

$$\begin{aligned}\partial^{(g)}a &= d^{(g)}a + g^{-1} \frac{1}{i\hbar} [I_g, a_g] = d^{(g)}a + \frac{1}{i\hbar} [I, a]^{(g)} \\ d^{(g)}a &\stackrel{\text{def}}{=} g^{-1} dg.\end{aligned}\tag{62}$$

Consequently, the formulas (64), (65), (66) and (67) read

$$R \stackrel{\text{def}}{=} d^{(g)}\Gamma + \frac{1}{2i\hbar} [\Gamma, \Gamma]^{(g)},\tag{64}$$

$$D^{(g)}a = d^{(g)}a + \frac{1}{i\hbar} [\tilde{I}, a]^{(g)},\tag{65}$$

$$\Omega = d^{(g)}\tilde{I} + \frac{1}{2i\hbar} [\tilde{I}, \tilde{I}]^{(g)}\tag{66}$$

and

$$D^{(g)}a = d^{(g)}a + \frac{1}{i\hbar} [\Gamma + \gamma, a]^{(g)}.\tag{67}$$

Observe that due to our choosing of the symplectic connection one gets that

$$d(g\Gamma) = d\Gamma \quad \text{and} \quad gR = R.$$

Hence,  $R$  defined by (64) is equal to  $R$  defined by (55). Finally, instead of (89) we have

$$\begin{aligned}
 g\partial^{(g)}R &= \frac{1}{4}R_{i_1i_2j_1j_2;l}X^{i_1}X^{i_2}dq^{j_1}\wedge dq^{j_2}\wedge dq^l \\
 &= \frac{1}{12}\left(R_{i_1i_2j_1j_2;l}X^{i_1}X^{i_2}dq^{j_1}\wedge dq^{j_2}\wedge dq^l \right. \\
 &\quad \left.+R_{i_1i_2lj_1;j_2}X^{i_1}X^{i_2}dq^l\wedge dq^{j_1}\wedge dq^{j_2} \right. \\
 &\quad \left.+R_{i_1i_2j_2l;j_1}X^{i_1}X^{i_2}dq^{j_2}\wedge dq^l\wedge dq^{j_1}\right). \tag{89}
 \end{aligned}$$