Corrections to my paper "Endomorphisms of Weyl algebra and p-curvatures".

There are several errors in sign. Here is a short note on corrections on them. The corrected part is marked up in red. The author hopes this note helps readers' understanding of the paper.

The origin of the error is the corrdinate description of $\nabla^{(0)}$ (Lemma 3.1). Namely, the formula (3.1) should be

$$\left.\begin{aligned} \nabla^{(0)}_{\partial/\partial T_i} &= \partial/\partial T_i - \operatorname{ad}(\nu_i),\\ \nabla^{(0)}_{\partial/\partial U_i} &= \partial/\partial U_i + \operatorname{ad}(\mu_i). \end{aligned}\right\} \quad (i=1,2,\dots,n). \tag{3.1}$$

Accordingly, the definition of F right after (3.1) should be

$$\nabla = d + dF, \qquad F = -\left(\sum_{i=1}^{n} T_i\nu_i - U_i\mu_i\right).$$

The definition of $\nabla^{(1)}$ should be,

$$\nabla^{(1)} = \nabla + \sum_{i=1}^{n} T_i dU_i (= d + dF + \sum_{i=1}^{n} T_i dU_i). \tag{3.6}$$

In other words,

$$\nabla^{(1)}_{\frac{\partial}{\partial T_i}} = \frac{\partial}{\partial T_i} - \nu_i, \quad \nabla^{(1)}_{\frac{\partial}{\partial U_i}} = \frac{\partial}{\partial U_i} + \mu_i + T_i.$$

The change affects the sign proof of Proposition 3.2 should be as follows.

$$(\operatorname{curv}_p \nabla^{(1)})(D) = (\nabla^{(1)}_D)^p - \nabla^{(1)}_{D^p} = +\langle \sum_{i=1}^{n} T_i dU_i, D\rangle^p. \tag{3.7}$$

$$+\left\langle \sum_{i=1}^{n} \overline{T_i} d\overline{U_i}, D \right\rangle^p = +\left\langle \sum_{i=1}^{n} T_i dU_i, D \right\rangle^p + D^{p-1}\langle \omega^{(1)}, D\rangle + \langle \omega^{(1)}, D\rangle^p$$

Thus the equation (3.4) in Proposition 3.2 should be as follows.

$$\left.\begin{aligned} \omega_{T_i}^p + (\partial/\partial T_i)^{p-1}(\omega_{T_i} + \sum_{j=1}^{n} \overline{T_j}\frac{\partial \overline{U_j}}{\partial T_i}) &= 0\\ \omega_{U_i}^p + (\partial/\partial U_i)^{p-1}(\omega_{U_i} + \sum_{j=1}^{n} \overline{T_j}\frac{\partial \overline{U_j}}{\partial U_i}) &= 0 \end{aligned}\right\} \quad (i=1,2,\dots,n) \tag{3.4}$$