

Erratum

Improved effective action for light quarks beyond the chiral limit

M. Musakhanov

Theoretical Physics Department, Tashkent State University, Tashkent 700095, Uzbekistan
(e-mail: yousuf@iaph.silk.org)

Eur. Phys. J. **9**, 235–243 (1999)

Published online 20 May 1999 / Erratum published online: 8 May 2000 – © Springer-Verlag 2000

The corrections are as follows:

1. The signs in front of im at the second row of (17) and at the second round bracket of the first arrow of (23) should be minus.
2. The terms proportional to the current mass m in (43–44) should be taken with the opposite sign.
3. We have not taken into account pure mesonic terms of the DP action. In fact, these terms reproduce current algebra results for the pseudoscalar meson masses.

These corrections do not alter in any way the general conclusion on the nonapplicability of the DP action beyond the chiral limit since this action could not reproduce the axial anomaly low-energy theorems beyond the chiral limit in contrast to the improved action.

I am grateful to M. Polyakov and C. Weiss for useful discussions.