CORRECTION



Correction to: On solutions to the nonlocal $\overline{\partial}$ -problem and (2+1) dimensional completely integrable systems

Patrik V. Nabelek¹

Published online: 9 April 2021 © The Author(s), under exclusive licence to Springer Nature B.V. 2021

Correction to: Letters in Mathematical Physics (2021) 111:16 https://doi.org/10.1007/s11005-021-01353-w

The publication of this note unfortunately contained three errors. The author apologizes for any confusions this may have caused.

The first error is that $\eta(x, y, t)$ appears in (50). The solution to the complex KP equation should be u(x, y, t) and not $\eta(x, y, t)$.

The second error is that the definition of the function

$$\phi(\lambda, x, y, t) = \lambda x + \lambda^2 y + \lambda^3 t$$

on the lines following equations (21) and (49) leads to solutions to the scaling

$$(4u_t + 6uu_x - u_{xxx})_x - 3u_{yy} = 0$$

of the complex KP equation. To produce solutions to the scaling

$$(4u_t - 6uu_x + u_{xxx})_x + u_{yy} = 0$$

used in this note a valid definition of ϕ is

$$\phi(\lambda, x, y, t) = \lambda x + \sqrt{3}\lambda^2 y - \lambda^3 t.$$

When this scaling is used $t_2 = \sqrt{3}y$ and $t_3 = -t$ in (52).

The third error is that the terms

$$-\kappa_n x + \kappa_n^3 t$$
, $-sx + s^3 t$, and $sx - s^3 t$

The original article can be found online at https://doi.org/10.1007/s11005-021-01353-w.

Patrik V. Nabelek nabelekp@oregonstate.edu

¹ Oregon State University, Corvallis, OR, USA

appearing in (38), (42), and (43) respectively should be

$$-2\kappa_n x + 2\kappa_n^3 t$$
, $-2sx + 2s^3 t$, and $2sx - 2s^3 t$

respectively to produce solutions to the scaling

$$4u_t - 6uu_x + u_{xxx} = 0$$

of the KdV equation used in this note.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.