

RETRACTION NOTE

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Retraction Note to: Extremal surface with the light-like line in Minkowski space $R^{1+(1+1)}$

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The editors have retracted this article [1] as it contains sections that substantially overlap with the following articles [2–4]. The authors have not responded to any correspondence regarding this retraction.

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References

- Gao, R., Wang, F., Xhang, X., Wang, Y.: Extremal surface with the light-like line in Minkowski space R¹⁺⁽¹⁺¹⁾. Bound. Value Probl. 2017, 58 (2017). https://doi.org/10.1186/s13661-017-0786-9
- 2. Gu, C.: A global study of extremal surfaces in 3-dimensional Minkowski space. In: Differential Geometry and Differential Equations. Lecture Notes in Mathematics, vol. 1255. Springer, Berlin (1987)
- 3. Fujimori, S., Kim, Y.W., Koh, S.-E., Rossman, W., Shin, H., Umehara, M., Yamada, K., Yang, S.-D.: Zero mean curvature surfaces in Lorentz–Minkowski 3-space which change type across a light-like line. Osaka J. Math. **52**, 285–297 (2015)
- Fujimori, S., Kim, Y.W., Koh, S.-E., Rossman, W., Shin, H., Takahashi, H., Umehara, M., Yamada, K., Yang, S.-D.: Zero mean curvature surfaces in L³ containing a light-like line. C. R. Math. 350, 975–978 (2012)

