ERRATUM "THE BFK-GLUING FORMULA FOR ZETA-DETERMINANTS AND THE VALUE OF RELATIVE ZETA FUNCTIONS AT ZERO" [J. KOREAN MATH. SOC. 45 (2008), NO. 5, PP. 1255–1274]

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In Lemma 2.3, Lemma 3.3 and Corollary 3.4 of the paper [4], the author incorrectly computed the asymptotic expansion of $\log \operatorname{Det} R(\lambda)$ for $\lambda \to \infty$. This incorrect computation affects Theorem 3.6 and Theorem 4.1, which, as a consequence, are not true. The main mistake is the incorrect computation of the complete symbol of the pseudodifferential operator $\mathfrak{S}_0$, which is much more complicated than the author thought. Unfortunately the author has not been able to correct this mistake. Without perfect understanding of the complete symbol of $\mathfrak{S}_0$, the method given in this paper may not be successful.

However, in Theorem 3.4 of [2] and Theorem 1.1 of [3], K. Kirsten and the author corrected the mistakes of this paper by using the result of [1].

References

[1] G. Fucci and K. Kirsten, *The spectral zeta function for Laplace operators on warped product manifolds of the type $I \times_f N$*, Comm. Math. Phys. **317** (2013), no. 3, 635–665. https://doi.org/10.1007/s00220-012-1555-3

[2] K. Kirsten and Y. Lee, *The Burghelea-Friedlander-Kappeler-gluing formula for zeta-determinants on a warped product manifold and a product manifold*, J. Math. Phys. **56** (2015), no. 12, 123501, 19 pp. https://doi.org/10.1063/1.4936074

[3] _____, *The polynomial associated with the BFK-gluing formula of the zeta-determinant on a compact warped product manifold*, J. Geom. Anal. **28** (2018), no. 4, 3856–3891. https://doi.org/10.1007/s12220-018-0003-9

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