Editors' Note on
"The symplectic sum formula for
Gromov-Witten invariants"

By Eleny-Nicoleta Ionel and Thomas H. Parker

The authors have acknowledged the following errors brought to their attention by Tehrani and Zinger [TZ]:

(i) Parts of the analysis in Sections 6-8 address only the basic case of maps with intersection multiplicity $s = \mathbf{1}$.

(ii) Formula (7.5) for the adjoint $\mathbf{D}_F^*$ is not correct.

(iii) The sign of the curvature in (8.7) is wrong, invalidating the proof of Proposition 8.2.

The Editors note that these errors invalidate the proof of the main result, the Symplectic Sum Theorem of [IP1]. Further, while the statement of the main result asserts a topological formula for symplectic manifolds, the proof requires the analytic hypothesis that the relevant moduli spaces are "generically admissible."

The authors have posted a Corrigendum [IP2] to the paper on the arXiv: http://arXiv.org/abs/1510.06943.

References

[IP1] E.-N. Ionel and T. H. Parker, The symplectic sum formula for Gromov-Witten invariants, *Ann. of Math.* **159** (2004), 935–1025. MR 2113018. Zbl 1075. 53092. http://dx.doi.org/10.4007/annals.2004.159.935.

[IP2] E.-N. Ionel and T. H. Parker, Corrigendum: The symplectic sum formula for Gromov-Witten invariants, 2015. arXiv 1510.06943.

[TZ] M. F. Tehrani and A. Zinger, On symplectic sum formulas in Gromov-Witten theory. arXiv 1404.1898v2.