Addendum: Classifying 5d SCFTs via 6d SCFTs: rank one

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The purpose of this addendum is to include important references to original work that had already appeared in the literature at the time of publication:

1. In sections 4.1 and 4.9 (see also appendices B.2 and B.3), it should be noted that F-theory models with gauge algebra $\mathfrak{su}(n)$ (constructed by means of split I_n Kodaira fibers) were studied in great detail in [1–4]. In particular, the zero mass resolutions,¹ phase structures, and triple intersection numbers were computed exhaustively for the cases $n \leq 5$ in [1–3], whereas a particular set of resolutions and accompanying triple intersection numbers were computed for arbitrary n in [4].
2. Regarding section 4.7, the unique zero mass parameter resolution, triple intersection numbers, and fibral divisor geometry of F-theory models with gauge algebra $\mathfrak{f}_4$ (constructed by means of a non-split IV^* Kodaira fiber) were computed in [5]; we note that our results agree with those of [5].
3. Regarding sections 4.8, 4.11, and 4.12 (see also appendix B.1), we note that the zero mass parameter resolutions, fibral divisor geometry, and corresponding triple intersection numbers for F-theory models with gauge algebras (respectively) $\mathfrak{g}_2$, $\mathfrak{spin}(7)$, $\mathfrak{spin}(8)$ (constructed by means of, respectively, non-split, semi-split, and split I_0^* Kodaira fibers) were studied in [6].

¹‘Zero mass parameter resolutions’ are resolutions that coincide with the Coulomb branch phases of a 5d $\mathcal{N} = 1$ gauge theory with the same gauge symmetry and hypermultiplet content in the case that all mass parameters are set to zero.

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References

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