

Corrigenda to “Doubling construction of Calabi-Yau threefolds”, New York Journal of Mathematics 20 (2014), 1203-1235

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In our original paper [1], two data points were erroneously omitted in Figure 6.7, which come from

- No. 11 in Table 6.1 with $(h^{1,1}, h^{2,1}) = (2, 72)$, giving $(X, Y) = (-140, 74)$, and
- No. 64 and No. 66 in Table 6.3 with $(h^{1,1}, h^{2,1}) = (4, 50)$, giving $(X, Y) = (-92, 54)$,

where we set $X = 2(h^{1,1} - h^{2,1})$ and $Y = h^{1,1} + h^{2,1}$. The revised figure is given below.

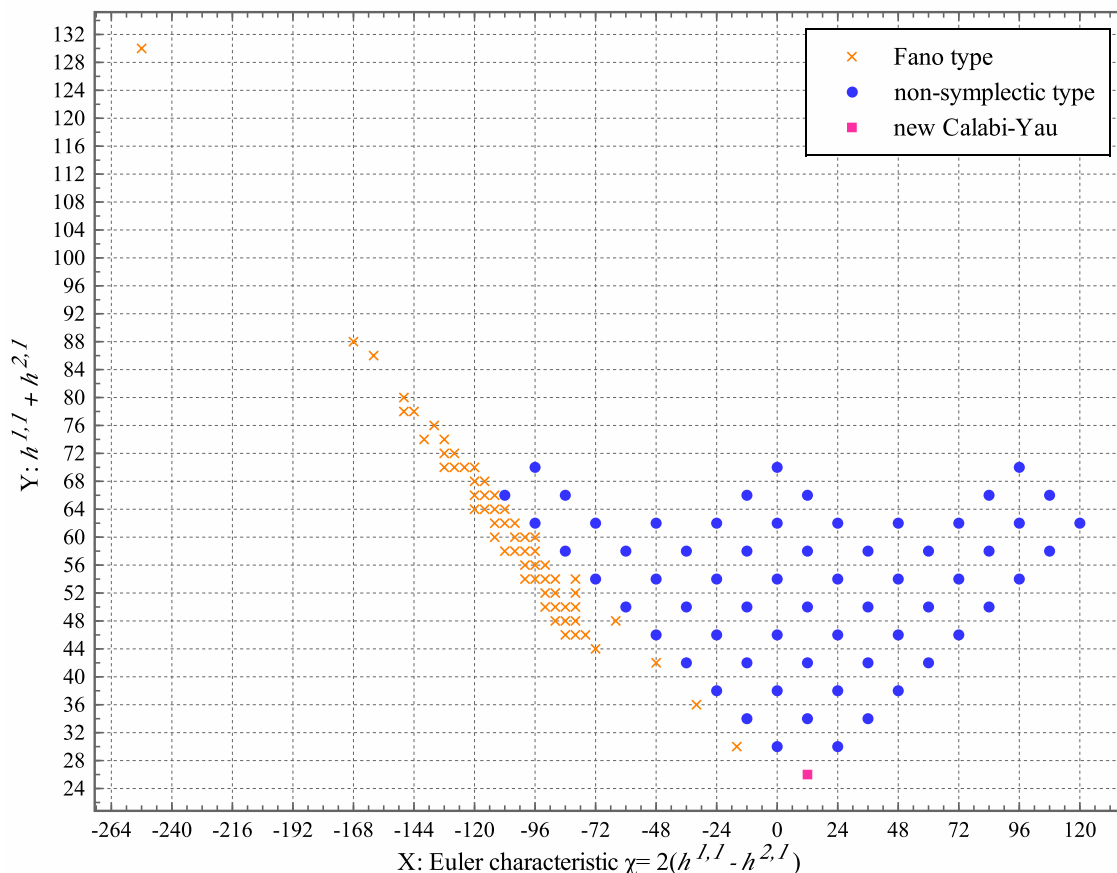


FIGURE 6.7. All resulting Calabi–Yau threefolds.

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Also, we correct some typographical errors as follows:

- (1) Page 1205, Section 1, 4th paragraph, lines 1–2:
 “With this construction, we shall give 123 topologically distinct Calabi-Yau threefolds (59 examples from admissible pairs of Fano type and 64 from those of non-symplectic type).” should be “With this construction, we shall give 125 topologically distinct Calabi-Yau threefolds (61 examples from admissible pairs of Fano type and 64 from those of non-symplectic type).”
- (2) Page 1205, line 5 from the bottom:
 “59 examples from admissible pairs of Fano type” should be “61 examples from admissible pairs of Fano type”.
- (3) Page 1209, Definition 3.2, lines 6–7:
 “extending t smoothly to X so that $t \leq 0$ on $X \setminus X_0$ ” should be “extending t smoothly on X so that $t \leq 0$ on X_0 ”.
- (4) Page 1210, Definition 3.6, (c):
 “The normal bundle $N_{\bar{X}/D}$ ” should be “The normal bundle $N_{D/\bar{X}}$ ”.
- (5) Page 1225, Section 6, (a), lines 5–6:
 “Then the number of distinct topological types of the resulting Calabi-Yau threefolds is 59.” should be “Then the number of distinct topological types of the resulting Calabi-Yau threefolds is 61.”

References

- [1] DOI, MAMORU; YOTSUTANI, NAOTO. Doubling construction of Calabi-Yau threefolds. *New York J. Math.* **20** (2014), 1203–1235. [MR3291616](#), [Zbl 1314.53081](#). 475

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