

**ERRATUM TO “CALABI-YAU THEOREM AND
HODGE-LAPLACIAN HEAT EQUATION IN A CLOSED
STRICTLY PSEUDOCONVEX CR $(2n + 1)$ -MANIFOLD”**

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Abstract

In this erratum, we give corrections regarding Theorem 4.2 of our paper that appeared in Volume 97, Number 3, 2014, pages 395–425.

In the proof of Theorem 4.2,

$$\rho(x) = \frac{1}{(n+2)} \{iR_{\alpha\bar{\beta}}\theta^\alpha \wedge \theta^{\bar{\beta}} - \frac{r}{n}d\theta\}$$

is not a d_H -closed $(1, 1)$ -form in general. In fact, it is d_H -closed if the torsion is divergence free, i.e., $A_{\alpha\beta, \bar{\beta}} = 0$.

In order to guarantee the result in Theorem 4.2 is correct, we need an extra assumption $A_{\alpha\beta, \bar{\beta}} = 0$ or $\rho(x)$ is a d_H -closed $(1, 1)$ -form in Theorem 1.1, Theorem 1.3, Corollary 1.2, and Corollary 1.3.

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