# Correction to "Invariants of ample line bundles on projective varieties and their applications, III"

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The author would like to correct a typo in his paper "Invariants of ample line bundles on projective varieties and their applications, III" Kodai Math. J. 35 (2012) 320-344.

**Table of misprint and error.**

| Page | Line | Error | Correct |
|---|---|---|---|
| 336 | 13 | $\cdots$ with $0 \leq i \leq n-1 = \cdots$ | $\cdots$ with $1 \leq i \leq n-1 = \cdots$ |

We would like to give a comment on this. We can prove the following for the case of $i = 0$.

**Theorem 1** *Let $X$ be a projective variety such that $X$ is a complete intersection of hypersurfaces $D_j$ of $\mathbb{P}^N$ with $D_j \in |\mathcal{O}_{\mathbb{P}^N}(d_j)|$ for any $j$ with $1 \leq j \leq r$. Let $n := \dim X = N - r$ and $L := \mathcal{O}_{\mathbb{P}^N}(1)|_X$. Then*

$$g_0(X, L) = L^n = 1 + \sum_{u=1}^{r} (-1)^{r-u} \sum_{(p_1,\ldots,p_r) \in S(r)_u} \binom{d_1 p_1 + \cdots + d_r p_r - 1}{r}.$$

*Here*

$$S(r)_u = \{(p_1, \cdots, p_r) \mid p_m \in \mathbb{Z},\ 0 \leq p_m \leq 1,\ \sharp\{m \mid p_m = 1\} = u\}.$$

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