Corrigendum to ”Some new identities for Schur functions”

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Theorem 5 of [1, p. 496] is not stated correctly. For completeness, here are the correct statements.

**Theorem 5.** For non negative integers $m$ and $n$,

$$\sum_{\lambda \subseteq (m,n)} f_\lambda(a,b)s_\lambda(X) = \sum_{\xi \in \{\pm 1\}^n} \beta(\xi, a, b) \prod_i x_i^{m(1-\xi_i)/2}$$

where the coefficient $\beta(\xi, a, b)$ is equal to

$$\begin{cases} 
    a^m D(\xi, b) \Phi(X^\xi; a^{-1}, b) + b^m D(\xi, a) \Phi(X^\xi; a, b^{-1}) & \text{if } |\xi|_{-1} \text{ odd}, \\
    D(\xi, ab) \Phi(X^\xi; a, b) + (ab)^m D(\xi, 1) \Phi(X^\xi; a^{-1}, b^{-1}) & \text{if } |\xi|_{-1} \text{ even}.
\end{cases}$$

Indeed, the second paragraph of the page 505 of [1] should be read as follows:

In the same way, we find for any even size subset $Y \subseteq X$ that

$$d(Y) = -\frac{D(\xi, 1)}{1 - a^{-1}b^{-1}} \Phi(X^\xi; a^{-1}, b^{-1})$$

and for any odd size subset $Y \subseteq X$ that

$$a(Y) = \frac{D(\xi, b)}{1 - a^{-1}b} \Phi(X^\xi; a^{-1}, b),$$

$$b(Y) = -\frac{D(\xi, a)}{1 - ab^{-1}} \Phi(X^\xi; a, b^{-1}).$$

Consequently, the first paragraph of the page 506 of [1] should be read as follows:

On the other hand, we have

$$\beta(\xi, 1, 0) = \Phi(X^\xi; 1, 0),$$

$$\beta(\xi, 1, -1) = \begin{cases} 
    \Phi(X^\xi; 1, -1) & \text{if } m \text{ even}, \\
    \Phi(X^\xi; 1, -1) \prod_i x_i^{(\xi_i, -1)/2} & \text{if } m \text{ odd};
\end{cases}$$

and

$$\beta(\xi, 0, 0) = \begin{cases} 
    0 & \text{if } |\xi|_{-1} \text{ is odd}, \\
    \Phi(X^\xi; 0, 0) & \text{otherwise}.
\end{cases}$$

We thank Masao Ishikawa for carefully checking our theorem and pointing out the above mistake.
References