PROCEEDINGS OF THE
AMERICAN MATHEMATICAL SOCIETY
Volume 137, Number 9, September 2009, Page 3167
S 0002-9939(09)09884-0
Article electronically published on March 20, 2009

# ERRATUM TO: ON ENUMERATION OF CONJUGACY CLASSES OF COXETER ELEMENTS

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(Communicated by Jim Haglund)

For the article with the above title appearing in the *Proceedings of the American Mathematical Society*, volume 136 of 2008, there are two typographical errors in the proof of Proposition 3.8 on page 4162:

- The inequality in line 3 of the proof should be reversed to read "... over $Y'$, and thus $n_c \geq \kappa(Y')$."
- The inequality in the last line of the proof should be reversed to read "... of $\mathfrak{C}_e(Y)$, and thus $n_c \leq \kappa(Y')$."

With these corrections the full proof becomes:

*Proof.* Let $n_c$ denote the number of connected components of $\mathfrak{C}_e(Y)$. By Proposition 3.7, if $[O_Y]$ and $[O'_Y]$ are connected in $\mathfrak{C}_e(Y)$, then both classes are contained in the same $\kappa$-class over $Y'$, and thus $n_c \geq \kappa(Y')$.

It is clear that a $\kappa$-class contains all acyclic orientations for which there are representative permutations that are related by a sequence of adjacent transpositions of non-connected vertices in $Y$ and cyclic shifts. Upon deletion of the cycle-edge $e$, the adjacent transposition of the endpoints of $e$ becomes permissible, and thus two distinct $\kappa$-classes in $Y$ containing acyclic orientations that only differ on $e$ are contained within the same $\kappa$-class over $Y'$. By reference to the underlying permutations, it follows that two $\kappa$-classes in $Y$ are contained within the same $\kappa$-class in $Y'$ if and only if there is a sequence of $\kappa$-classes in $Y$ where consecutive elements in the sequence contain acyclic orientations that differ precisely on $e$. By the definition of $\mathfrak{C}_e(Y)$ it follows that all $\kappa$-classes over $Y$ that merge so as to be contained within one $\kappa$-class in $Y'$ upon deletion of $e$ are contained within the same connected component of $\mathfrak{C}_e(Y)$, and thus $n_c \leq \kappa(Y')$. □

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Received by the editors November 20, 2008.
2000 *Mathematics Subject Classification.* Primary 20F55; Secondary 05A99, 06A06.