Erratum

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ERRATUM

Erratum: Irene Llerena, "Wedge cancellation of certain mapping cones", Comp. Math. 81, 1–17, 1992.

There is an error at the end of the proof of Theorem 3. Once we have that $u' \equiv 0$, $v' \equiv 0$ modulo $|y_j|$, we cannot infer that $v \equiv \pm 1$ modulo $|y_j|$, but only that $v \not\equiv 0$ modulo $|y_j|$. Whenever $|y_j|$ is 2 or 3 we still have

$$C_{\alpha_j} \simeq C_{\beta_{\sigma(j)}}.$$

But, in general, this may not be true. Consider, for example, α_i, $\beta_i : S^{23} \to S^{12} \vee S^{12}$, $i = 1, 2$, such that

$$H(\alpha_1) = H(\beta_1) = \begin{pmatrix} a & 0 \\ 0 & 0 \end{pmatrix}, \qquad H(\alpha_2) = H(\beta_2) = \begin{pmatrix} b & 0 \\ 0 & 0 \end{pmatrix}, \quad a \neq b,$$

and

$$\Sigma\alpha_1 = \begin{pmatrix} x \\ y \end{pmatrix}, \quad \Sigma\beta_1 = \begin{pmatrix} x \\ 5y \end{pmatrix}, \quad \Sigma\alpha_2 = \begin{pmatrix} \bar{x} \\ y \end{pmatrix}, \quad \Sigma\beta_2 = \begin{pmatrix} \bar{x} \\ 3y \end{pmatrix},$$

where $y \in \Sigma z$ and z is an element of order 7 in $\pi_{23}(S^{12}) \cong \mathbb{Z} \oplus \mathbb{Z}/(504)$. Taking

$$\psi = \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix} \quad \text{and} \quad \varphi = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 5 & 0 & 7 \\ 0 & 0 & 1 & 0 \\ 0 & 7 & 0 & 10 \end{pmatrix},$$

we see that $C_{\alpha_1} \vee C_{\alpha_2} \simeq C_{\beta_1} \vee C_{\beta_2}$. However $C_{\alpha_1} \not\simeq C_{\beta_i}$, $i = 1, 2$.