## Erratum to "Asymptotic Expansion of the Heat Kernel for Orbifolds"

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In [1], for each stratum N of the singular set, we define a subgroup  $\text{Iso}^{\max}(N)$  of the isotropy group of N. The subgroups  $\text{Iso}^{\max}(N)$  play an important role in the heat invariants. In Theorem 5.1 (one of the applications of the heat invariants), there is an implicit assumption that  $\text{Iso}^{\max}(N)$  is nontrivial. Thanks to a question from Naveed Bari, we now realize that  $\text{Iso}^{\max}(N)$  may be trivial. The strata for which  $\text{Iso}^{\max}(N)$  is trivial do not appear in the heat invariants, necessitating the addition of a hypothesis to Theorem 5.1. An example for which  $\text{Iso}^{\max}(N)$  is trivial and the modified statement of Theorem 5.1 follow.

EXAMPLE. On  $\mathbb{R}^3$ , let  $r_x$ ,  $r_y$ , and  $r_z$  denote the rotation through angle  $\pi$  about the *x*-, *y*-, or *z*-axis, respectively. Then  $G := \{r_x, r_y, r_z, \text{Id}\}$  is a Klein 4-group acting isometrically on  $\mathbb{R}^3$ . It is convenient to view the nontrivial elements of *G* as diagonal matrices with

$$r_x = \begin{bmatrix} 1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{bmatrix}, \quad r_y = \begin{bmatrix} -1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & -1 \end{bmatrix}, \text{ and}$$
$$r_z = \begin{bmatrix} -1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & 1 \end{bmatrix}.$$

The quotient of  $\mathbb{R}^3$  by *G* is an orbifold. The axes project to 1-dimensional strata, and the origin projects to a 0-dimensional stratum for which Iso<sup>max</sup>(*N*) is trivial.

5.1. THEOREM. Let  $\mathcal{O}$  be a Riemannian orbifold with singularities. If  $\mathcal{O}$  is even dimensional (respectively, odd dimensional) and if there exists an odd-dimensional (respectively, even-dimensional)  $\mathcal{O}$ -stratum N of the singular set with Iso<sup>max</sup>(N) nontrivial, then  $\mathcal{O}$  cannot be isospectral to a Riemannian manifold.

We remark that  $Iso^{max}(N)$  is nontrivial for all strata N that have maximal dimension within any given component of the singular set.