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ERRATUM: AN ALGORITHM FOR THE COMPUTATION OF EIGENVALUES, SPECTRAL ZETA FUNCTIONS AND ZETA-DETERMINANTS ON HYPERBOLIC SURFACES

ALEXANDER STROHMAIER AND VILLE USKI

The example in section 7.3 page 854 titled "The surface with symmetry group $\mathbb{Z}_5 \times \mathbb{Z}_2$" was given incorrect Fenchel-Nielsen coordinates. The correct coordinates are

$$(\ell_1, t_1; \ell_2, t_2; \ell_3, t_3) =$$
$$= (2\,\mathrm{arccosh}\frac{3+\sqrt{5}}{2}, 0; 2\,\mathrm{arccosh}\frac{2+\sqrt{5}}{2}, \frac{1}{2}; 2\,\mathrm{arccosh}\frac{9+3\sqrt{5}}{4}, \frac{1}{2}).$$

This effected the numerical computations and the data file for this example. The correct value for the spectral determinant is given by

$$\det_\zeta(\Delta) \approx 4.630575,$$
$$\zeta_\Delta(-1/2) \approx -0.656986.$$

instead of the values claimed in the article.

The data files for the computed eigenvalues have been uploaded to the arxiv version of this article as the link originally provided in the article is not operational any more.

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