

Classification of unit-vector fields in convex polyhedra with tangent boundary conditions

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Corrigendum

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The following corrections should be made. Proposition 2 of section 3 should be proposition 3.3. There is a sign error in equation (39). The correct formula is

$$\hat{\mathbf{n}}(\partial\hat{C}^a) = -\sum_c k^{ac} S^{1c} + K^a. \quad (39)$$

The correct sign for the first term on the right-hand side is obtained by using the orientation on the cleaving surface (in keeping with the stated conventions) to determine the k^{ac} contributions. As a consequence, the formula given in proposition 3.3 should be

$$\Omega^a = 4\pi w^a(\mathbf{s}) + 2\pi \sum_c \text{sgn}(\mathbf{F}^c \cdot \mathbf{s}) k^{ac} + \sum_{j=2}^{m-1} (A(\mathbf{e}^{b_1}, \mathbf{e}^{b_j}, \mathbf{e}^{b_{j+1}}) - 4\pi \sigma(\mathbf{e}^{b_1}, \mathbf{e}^{b_j}, \mathbf{e}^{b_{j+1}})).$$

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