

Trustee Annual Report

Charity Name The Marshmallow Foundation

Charity no. NIC109262

This report relates to the financial period: December 2022 (date of incorporation) to December 2023

The principal address of the charity is 91 Station Road, Holywood, BT18 0BU

The following individuals were the charity trustees on the date the report was approved

Allyson McKimm

Conor McKimm

Aileen Martin

Scott Martin

The following individuals served as charity trustees during the year:

Allyson McKimm

Conor McKimm

Aileen Martin

Scott Martin (appointed on 5th August 2024)

The Charity was formed in December 2022. The Charity is governed by a Trust deed.

The Charity is constituted as a Trust.

The charitable purposes of charity are to benefit other local charities and causes to be selected on an annual or bi-annual basis by the Chairperson and Trustees. The charity will help the voluntary and community sector and will operate on a grant making basis.

To further these purposes for the public benefit, we carried out the following activities:

As this was the inaugural year of the charity, we set up the bank account (Danske Bank) and the Trustees as outlined above. A donation of £15,000 was received but no grants have yet been paid to beneficiaries.

The main achievements of the charity in the year were:

There were no grants or donations made this year by the charity as it is in its initial stages and we would anticipate donations commencing in the next few months.

The trustees have read the Commission's Public Benefit requirement statutory guidance and have had regard to this when running the charity.

1. \mathbb{R}^n 上的内积 $\langle \cdot, \cdot \rangle$ 满足：
 (1) $\langle x, x \rangle \geq 0$ ，且 $\langle x, x \rangle = 0$ 当且仅当 $x = 0$ ；
 (2) $\langle x, y \rangle = \overline{\langle y, x \rangle}$ ；
 (3) $\langle ax + by, z \rangle = a\langle x, z \rangle + b\langle y, z \rangle$ ；
 (4) $\langle x, ay + bz \rangle = \overline{a}\langle x, y \rangle + \overline{b}\langle x, z \rangle$ 。

2. 范数 $\|x\|$ 定义为 $\|x\| = \sqrt{\langle x, x \rangle}$ 。

3. 欧几里得范数 $\|x\|_2$ 满足三角不等式：
 $\|x + y\|_2 \leq \|x\|_2 + \|y\|_2$ 。

4. 诱导范数 $\|A\|_2$ 定义为 $\|A\|_2 = \sqrt{\lambda_{\max}(A^*A)}$ 。

5. 谱范数 $\|A\|_F$ 定义为 $\|A\|_F = \sqrt{\text{tr}(A^*A)}$ 。

6. 算子范数 $\|A\|_1$ 定义为 $\|A\|_1 = \sum_{j=1}^n |a_{ij}|$ 。

7. 无穷范数 $\|A\|_\infty$ 定义为 $\|A\|_\infty = \max_{i=1, \dots, n} \sum_{j=1}^n |a_{ij}|$ 。

8. 矩阵 A 的范数 $\|A\|$ 满足：
 (1) $\|A\| \geq 0$ ，且 $\|A\| = 0$ 当且仅当 $A = 0$ ；
 (2) $\|A + B\| \leq \|A\| + \|B\|$ ；
 (3) $\|cA\| = |c| \|A\|$ ；
 (4) $\|AB\| \leq \|A\| \|B\|$ 。

9. 矩阵 A 的范数 $\|A\|$ 与 A 的奇异值 σ_i 满足：
 $\|A\|_2 = \max_i \sigma_i$ ，
 $\|A\|_F = \sqrt{\sum_i \sigma_i^2}$ ，
 $\|A\|_1 = \sum_i \sigma_i$ ，
 $\|A\|_\infty = \max_i \sum_j \sigma_{ij}$ 。

10. 矩阵 A 的范数 $\|A\|$ 与 A 的行列式 $\det(A)$ 满足：
 $\|A\|_2 \geq |\det(A)|^{1/n}$ 。

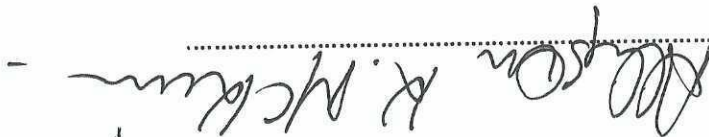
11. 矩阵 A 的范数 $\|A\|$ 与 A 的迹 $\text{tr}(A)$ 满足：
 $\|A\|_F^2 = \text{tr}(A^*A)$ 。

A review of the charity's financial position at the end of the year:

In the financial period to 31 December 2023 the Charity had an income of £15,000 and an expenditure of £230, resulting in a retained surplus of £14,770.

There are no funds held by the charity that are materially in deficit.

Signature



Print Name

ALLYSON KATHLEEN MCKIMM

Chairperson

Date

7th October 2024

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