$$\bigcup_{x \in X} \overline{B}_{2r}(x)$$
$$\simeq \mathcal{C}_{2r}(X) \cong \Delta^3$$

$m = 1$

$$\mathcal{MD}(X, \mu_X)_{1,r}$$
$$\simeq sk^2(\Delta^3)$$

$m = 2$

$\mathcal{MD}$

X

Consider X to be four points on the edges of a square in $\mathbb{R}^2$.