## Dear Editors:

We wish to submit an article entitled "On the expected number of facets for the convex hull of samples from spherically symmetric distributions" to the Journal *Advances in Applied Probability*. The authors of this work are myself, Xinyi Tong and Shao-Lun Huang.

Our submitted article studies the convex hull of d-dimensional samples i.i.d. generated from spherically symmetric distributions. We derive a complete integration formula for the expected facet number of the convex hull and obtain the asymptotic value of the expected facet number for three categories of spherically symmetric distributions. Additionally, the asymptotic result can be applied to the field of interpretable machine learning.

We confirm that neither the manuscript nor any parts of its content are currently under consideration or published in another journal, and all authors have approved the manuscript and agree with its submission to *Advances in Applied Probability*.

Sincerely,

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