

An elementary proof of the Euler's formula using the Cauchy's Method

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Abstract: The use of Cauchy's method in proving the well-known Euler's formula is an object of many controversies. In this talk, we will prove that the Cauchy's method applies for convex polyhedra and not only for them, but also for surfaces such as the torus, the projective plane, the Klein bottle and the pinched torus.

Joint work with: Jean-Paul Brasselet

References

- [1] J.-P. Brasselet and Thuy, N.T.B., *An elementary proof of Euler's formula using Cauchy's method*, Topology and its Applications, Volume 293 (2021), 107558.