

# Multiple roots of the volume polynomials for polyhedra

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In our work [1] among the open questions we have formulated under the number 6 a conjecture that the volume of any infinitesimally non-rigid polyhedron should be a multiple root of its volume polynomial. Now we can present a proof of this conjecture. As a consequence we have that the volume of any flexible polyhedron is a multiple root of its volume polynomial.

## REFERENCES

- [1] Idzhad Sabitov. Algebraic theory of the slution of polyhedra. *Russian Mathematical Surveys*, 66(3) : 3–66, 2011.