

# The maximal modulus of a reciprocal algebraic integer

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Let  $\alpha$  be an algebraic integer of degree  $d$ , which is reciprocal. The house of  $\alpha$  is the largest modulus of its conjugates. We compute the minimum of the houses of all reciprocal algebraic integers of degree  $d$  which are not roots of unity, say  $m_R(d)$ , for  $d$  at most 34. We proved lemmas useful to avoid unnecessary calculations. The computations suggest several conjectures.

## References

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