

Colloquium

A construction of non Parry numbers

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摘 要：

Beta expansion generalizes decimal or binary expansion to a arbitrary real number base. When the corresponding symbolic system is sofic, we call such a base Parry number. Parry numbers are algebraic integers having specific distribution of conjugates. A question is whether such distribution characterizes Parry numbers among algebraic integers. The answer is known to be negative, and we can construct a large family of non Parry numbers whose distribution is exactly the same as Parry numbers.