

# Narrow Hyper Imaginary Number and Generalized Hyper Imaginary Number

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**摘要:** On the basis of the traditional imaginary number, the author puts forward the concept of narrow hyper imaginary number and generalized hyper imaginary number. It gives a new terse form like traditional imaginary number. Although it is just the advance of the concept, its meaning is very significant. Its characteristics need further study. Especially the problem of infinite is also discussed. Because of the complexity of infinite, it still is a difficulty in the domain of mathematics. In this paper, the author only gives elementary thinking about infinite. Infinite may be regarded as a set and every element in this set has a limit tending to infinity. The concept of natural infinite also be put forward on basis of it. Of course it is just a elementary idea and needs futher study.

**关键词:** imaginary number, narrow hyper imaginary number, generalized hyper imaginary number, hyper imaginary number, complex sets, hyper complex sets, Abel, Galois, the theory of group, the set of infinite, nature infinite.

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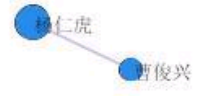
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