

Positive Zero Counting and Applications

主講人：蔡亞倫 博士

國立清華大學數學系

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摘 要：

Problems from various fields can be reduced to solving parametric polynomial systems. Specifically, we want to count the number of positive zeros for parametric polynomial systems. In this talk, I will show how to use symbolic computational tools to accomplish such tasks. By applying these tools, we can solve some interesting problems from the N-body problems, point charge problems, and a problem about the metric invariance of tetrahedron.