TSINGHUA MATHCAMP 2018 COURSE: ALGEBRAIC COMBINATORICS II

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Combinatorics is the art of counting and enumerating things. This subject is full of tricks as we all know it. In mathematics, instead of developing 100 tricks for 100 problems, we are more interested in developing a theory to solve a class of problems, whenever that is possible. In this course, we introduce some algebraic concepts, and explore how they may be used to guild us toward solving certain types of combinatorics problems.