

Colloquium

Bounding the Number of Elements in a P-Free Family

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地 點：應用數學系多媒體教室（理 408 室）

摘 要：

Burcsi and Nagy have recently proposed an interesting method for bounding the largest size of a P-free family of subsets of $[n]$ for any poset P . A crucial step is to bound the maximum number of elements in the intersection of a P-free family and a double chain. For any poset P they gave an upper bound which is tight in the sense that there are infinitely many P attaining the bound. An interesting problem raises naturally that whether there is an efficient algorithm to determine the maximum number for any poset P . It is still unknown whether the problem is NP or not. In this talk, I will give an improved upper bound by proposing an efficient algorithm.

The talk is based on a joint work, which is still running, with Fei-Huang Chang, Jun-Yi Guo and Wei-Tian Li.

～本次演講亦歡迎大學部同學參加～