For Favour of posting

The Hong Kong University of Science and Technology
Department of Mathematics
Seminar on Pure Mathematics
Mobius function, inversion, and beyond
By
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Abstract
The number theoretic M"{o}bius function is given by $\mu(1)=1$, $\mu(n)=(-1)^r$ if $n$ is a product of distinct primes, and equal to zero otherwise. The partial order of divisibility of positive integers is crucial in the M"{o}bius inversion. This talk is quickly to review the classical M"{o}bius function and M"{o}bius inversion, and then to introduce the M"{o}bius function and inversion on locally finite partially ordered sets. Various applications to hyperplane arrangement, vector subspace poset, simplicial (CW) complex, Coxeter group, and Boolean function satisfiability, etc., will be discussed.

Date:       Wednesday, 21 March 2018
Time:       5:00p.m. - 6:00p.m.
Venue:      Room 5510, Academic Building
(near Lifts 25 & 26), HKUST

All are welcome!