

MANY CHEERFUL FACTS

presents

The Möbius Inversion Formula Revealed

a talk by Jeffrey Doker

14:10 – 15:00 on Thursday, September 20, in room 1015.

Note the exceptional time.

There are two kinds of people in this world: the kind who think that the Möbius Inversion Formula is a pesky, confusing thing meant only to be memorized for a few proofs in elementary number theory, and the kind who believe it to be a natural, elegant property of partially ordered sets that makes complicated things easy to count. In this talk I aim to convert members of the former set to the latter.

*I am the very model of a modern Major General,
I've information vegetable, animal, and mineral,
I know the kings of England, and I quote the fights historical
From Marathon to Waterloo, in order categorical;
I'm very well acquainted, too, with matters mathematical,
I understand equations, both the simple and quadratical,
About binomial theorem I'm teeming with a lot o' news,
With many cheerful facts about the square of the hypotenuse!*

- Gilbert & Sullivan $P \circ P$

The website for Many Cheerful Facts is
<http://www.math.berkeley.edu/~slofstra/mcf>