

# MANY CHEERFUL FACTS

presents

## An Infinitude of Proofs.

a talk by David Brown

12:10 pm - 1:00 on Wednesday, May 4th, in room 1015.

I will give 17 intrinsically different proofs of the infinitude of the primes including a few classical proofs, several cute one-liners, an algebraic proof, and (my favorite) a purely topological proof.

◦ Check out the new(ish) MCF website: <http://math.berkeley.edu/~brownda/cheers/>

*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  $P \circ P$