

MANY CHEERFUL FACTS

presents

$3 \Rightarrow$ **Chaos.**

a talk by Kate Liesinger

12:10 pm - 1:00 on Wednesday, April 27th, in room
1015.

Dynamical systems are cool. Especially, periodic points of dynamical systems are cool. I like it when you iterate f at a point a and get $f^n(a) = a$. I will present a proof of Sarkovskii's theorem, a cute little theorem which tells you that if your system gives you one periodic point, then you probably have lots and lots of them. There will be colored chalk involved.

⊕ 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 $P \circ P$