

MANY CHEERFUL FACTS

presents

Category Theory as a Language

a talk by Shenghao Sun

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

Category theory is becoming the language in many branches of math. In this talk we are going to review (if you saw them before) some basic concepts and theorems in category theory, and will give many examples of adjoint functors, and show how this abstract nonsense can be applied in doing other concrete math.

*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/~siveson/cheerful/>