

Undergraduate Mathematics Colloquium

Frank Jones
Rice University

“ABC’s of the Heat Equation”

Friday August 26

Talk at 4:00 in Herman Brown 227

Tea at 3:30 in Herman Brown 438

Pizza after the talk

ABSTRACT: Starting from scratch, we’ll consider the heat equation

$$\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2} .$$

Such an innocent looking partial differential equation! But we’ll essentially just play around with this equation and derive some amazing mathematical results about integrals and infinite series. As this is all for fun, we won’t be worried very much at all about giving proofs of anything.

Rice University Department of Mathematics