

“What one fool can understand, another can.”—R. Feynman

# The Trivial Notions Seminar Proudly Announces

## Be Rational, Geometry!

A talk by  
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### Abstract

Given a Riemann surface  $X$  there is a canonical norm on its space of holomorphic quadratic differentials  $H^0(X, 2K_X)$ . If  $X \rightarrow Y$  is an isomorphism between Riemann surfaces the induced map  $H^0(X, 2K_X) \rightarrow H^0(Y, 2K_Y)$  will actually be a linear isometry with respect to the canonical norms.

In 1971 Royden showed that the converse is true if  $X$  and  $Y$  both have genus  $g \geq 2$ . In this talk we will discuss the proof of his theorem and give remarks on its higher dimensional generalization.

Thursday, February 19<sup>th</sup> at 2:07 pm  
Science Center 507