



# 2018 LONG COLLOQUIUM



## Dr. Lawrence Craig Evans

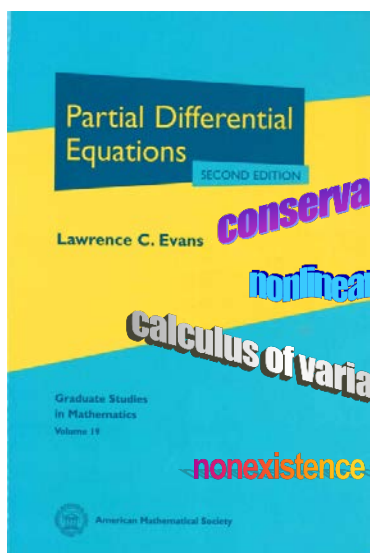
University of California, Berkeley

*Professor of Mathematics*

*Fellow of AAAS, of AMS,  
and of the National Academy of Sciences*



## Riccati Equation Methods for Weak KAM Theory



I will explain the useful PDE trick of making a log change of variables, and then discuss connections with Riccati equations in ODE theory. This point of view then leads to some interesting conjectures (and a little progress towards proving them) concerning the PDE approach to weak KAM theory.

**Tuesday, October 23<sup>rd</sup>, 2018**

**4:10 pm in Neill 5W**

**Reception at 3:30 pm in Neill 216**

**Hosted by Washington State University Department of Mathematics & Statistics**

*The Calvin and Jean Long Distinguished Lecture in Mathematics brings internationally renowned mathematics scholars to the WSU Pullman campus each fall. The lecture honors former department chairman and professor emeritus Calvin Long and his wife Jean who arrived at WSU, then WSC, in the fall of 1956. After working in the Mathematics Department at WSU for 36 years he retired in 1992.*

**Public Lecture Wednesday, October 24<sup>th</sup> at 7:00pm, Spark G45**