

Victor L. Shapiro Distinguished Lecture in Mathematics

May 29th, 2019

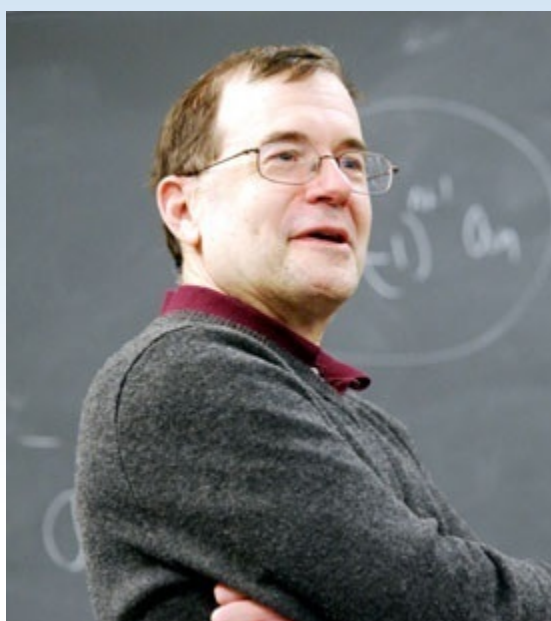
Skye Hall 284

Coffee/Tea & Fruit/Pastries Served: 3:40 p.m.

Lecture: 4:10 - 5:00 p.m.

Reception: 5:20 p.m.

Dr. Jeffrey Lagarias



Professor of Mathematics
University of Michigan, Ann Arbor

Addition versus Multiplication

Abstract: We consider the positive integers and ask the (vague) question: “Does addition get along with multiplication?” We view this question via results from the perspectives of: (1) Logic and computational complexity theory, (2) Measure theory and ergodic theory, (3) Diophantine problems (additive number theory), and (4) Digit expansions and primes (multiplicative number theory).

Bio: Dr. Jeffrey Lagarias joined the faculty at the University of Michigan in 2004 and became the Harold Mead Distinguished University Professor in 2018. He earned his bachelor's, master's and, in 1974, his Ph.D. in mathematics from the Massachusetts Institute of Technology, where he was a Putnam Fellow in 1970. Prior to joining academia, he worked for AT&T Bell Laboratories.

Dr. Lagarias' training was in number theory. His research interests also include discrete geometry, dynamical systems, mathematical optimization, harmonic analysis, computational complexity and mathematical physics. He has authored more than 200 publications with more than 100 collaborators worldwide and has edited four books.

Dr. Lagarias is a Fellow of the American Mathematical Society (AMS), the Society for Industrial and Applied Mathematics (SIAM) and the American Association for the Advancement of Science (AAAS). His career honors include the AMS Levi Conant Prize in 2014, and the Mathematical Association of America (MAA) Paul R. Halmos-Lester R. Ford Award in 1986 and 2007.