

The Department of Physics of the University at Buffalo Presents  
**the Fifteenth Annual Moti Lal Rustgi Memorial Lecture**



The **DNA**  
of **Reality** and  
Its **Genome**

**Professor S. James Gates, Jr.**  
**University of Maryland**

**Friday, April 3, 2009**  
**4:30 PM**  
**112 Norton Hall**  
**UB Amherst Campus**

A distinguished string theorist working at the cutting edge of physics, Sylvester James Gates, Jr., has also helped introduce scientific concepts to the public through the PBS television programs “Breakthrough: The Changing Face of Science in America”, “A Science Odyssey”, “The Elegant Universe”, and “Einstein’s Big Idea”. Gates has served on the faculties of MIT, Howard University, California Institute of Technology and the University of Maryland, where he is currently John S. Toll Professor of Physics and Director of the Center for String and Particle Theory. He is a Fellow of the American Association for the Advancement of Science, the American Physical Society, which named him the first recipient of the Bouchet Award, and the National Society of Black Physicists, of which he is a past president. He has authored or co-authored more than 200 published research papers, co-authored one book and contributed numerous articles in others. In 2008, he participated in a number of events at the World Science Festival in New York City, including the “Beyond Einstein” panel. His awards include the MIT Martin Luther King, Jr. Leadership Award, the Klopsteg Award of the American Association of Physics Teachers, and the American Association for the Advancement of Science Award for Public Understanding of Science and Technology.

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