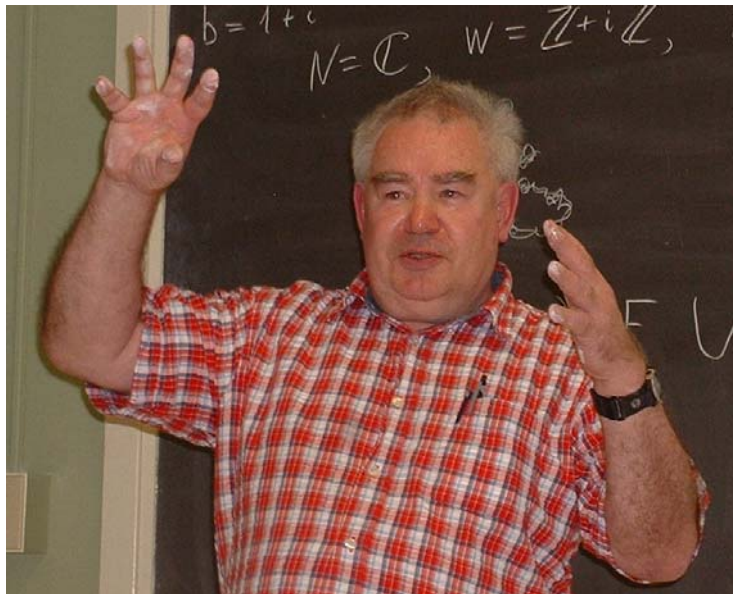


The College of William and Mary
is proud to announce
a Distinguished Lecture Series
by
Professor Alexander A. Kirillov

Francis J. Carey Professor of Mathematics, University of Pennsylvania



Professor Kirillov is among the best world experts in Representation Theory – a field of mathematics which explores the role of symmetries. This theory has fundamental applications to Quantum Mechanics, and as a matter of fact, its remarkable development in the 20th century was to a great extent related to its prominence for Physics. Kirillov’s most fundamental contribution to Mathematics was a striking new method for construction and study of irreducible unitary representations of Lie groups, known as the Orbit Method, or Geometric Quantization, which he first proposed at the age of 24. This method is definitely one of the milestones of the 20th century mathematics.

Alexander Kirillov received his degrees from the Moscow State University, Russia. The Orbit Method was the subject of his PhD thesis, but the discovery was so stunning that Kirillov was awarded a much higher degree of Doctor of Science (there is no comparable degree in the USA), becoming one of the youngest ever Doctors of Science in the USSR. He was teaching at the Moscow State University for many years before accepting a distinguished professorship at the University of Pennsylvania in 1994.

During his high school years Alexander Kirillov was one of the famous Mathematical Olympiad winners. He is still very active in organization of Russian mathematical contests.

Alexander Kirillov

***Two lectures on the Orbit Method in Representation Theory of
Lie Groups***

Abstract: *Isaac Newton encrypted his discoveries in analysis in the form of an anagram, which deciphers to the sentence "It is worthwhile to solve differential equations". Accordingly, one can express the main idea behind the Orbit Method by saying "It is worthwhile to study coadjoint orbits".*

In my lectures I shall explain why coadjoint orbits of a Lie group are related to unitary irreducible representations of this group and why the orbit method is a homogeneous version of the Geometric Quantization.

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SCHEDULE OF THE VISIT (September 6 – 10, 2005)

LECTURE 1.

Time and place: Wednesday, September 7, 2005, 4:00 – 5:00 pm,
Small 113.

There will be a **RECEPTION** in Jones 131 before this lecture, at 2:30 – 3:45 pm.

LECTURE 2.

Time and place: Friday, September 9, 2005, 4:00 – 5:00 pm, Small
113.

There will be a **DINNER** at a local restaurant after this lecture, at 6:00 pm,
place TBD.

For further information contact Nahum Zobin, Department of Mathematics,
zobin@math.wm.edu, (757) 221-2024.

