

University of Washington • Department of Physics

PHYSICS COLLOQUIUM

Dimitri Kusnezov (National Nuclear Security Administration, DoE)

"The New Frontier of Computational Science: Applications to High Leverage Decisions"

Monday, March 30th, 2009

4:00 PM, Ronald Geballe Auditorium, Rm. A-102

Abstract: Today's supercomputers have already surpassed the petaflop mark. Is there something new to be had here, or should we expect more of the same, only faster? While there are many technical challenges at this scale, I believe it symbolizes the scale at which our approach to computational science - today's archetype - requires revision. We are reaching the point where raw computational power is no longer the limiting factor – rather what constrain us are our

vision and our ability to ensure the veracity of our predictions. Computing at the petascale will open doors to discovery, and we must not be limited by the current way we approach computing. At the same time, expectations for great achievement will likely outpace our ability to effectively use these systems for innovation. This is becoming critical as these results have the potential to exert greater influence on high-consequence

Tuesday, March 31st, 2009

Astrobiology Seminar

2:30 PM, Rm. A-118, PAA

Radu Popa, Portland State University

"Xenobiology - The non-Earth-centric quest for the origin of life."

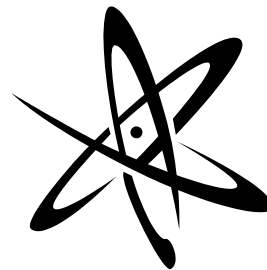
Thursday, April 2nd, 2009

Astronomy Colloquium

4:00 PM, Rm. A-102, PAA

Rory Barnes, UW Astronomy

Seminars



Mar 30-Apr 3