



poziva Vas na znanstveni kolokvij

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Dvorana Instituta Ruđer Bošković, Ivan Supek krilo, Bijenička 54, Zagreb

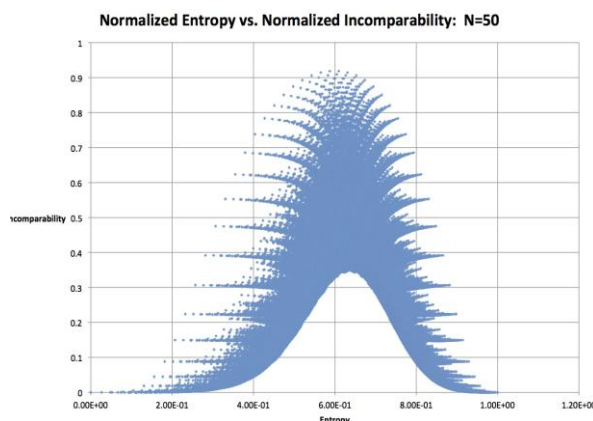
Die Mischung Macht's!

Prof. Dr. William Seitz

Department of Marine Sciences
Texas A&M University at Galveston

Abstract

We begin with a formal definition of mixing in statistics. While known since 1974, this concept has been largely ignored in science. Our new study of mixing has revealed a beautiful relationship between incomparability and entropy. In a manner similar to the relationship between entropy and disorder, we believe that incomparability is related to complexity. Seitz and Kirwan have plotted incomparability vs. entropy as shown below.



We will discuss how these results led to the association of complexity with incomparability. I will briefly discuss some ongoing work at Ruđer Bošković Institute with Drs. Krunoslav Brčić-Kostić and Petar Mitrikeski. Then I will review some qualitative examples. The talk is intended for a general audience of scientists (and maybe artists).

Prof. Dr. William Seitz, CV

Dr. William Seitz was born in 1948 in Waltham, Massachusetts. He attended Rice University in Houston, Texas where he graduated Magna Cum Laude with a BA in Chemical-Physics. While at Rice he was elected to Phi Beta Kappa, Phi Lambda Upsilon, and Sigma Pi Sigma academic honor societies. He was also awarded a Woodrow Wilson Fellowship.

Dr. Seitz returned to Rice as a postdoctoral fellow working with Dr. Huey Huang and Dr. Fred Wall in biophysics and polymer science respectively and then served for a year on the Rice faculty as a Visiting Assistant Professor of Chemistry. In 1977, Dr. Seitz moved to Texas A&M University at Galveston (TAMUG) where he has remained ever since. In 1988 Dr. Seitz was awarded a Fulbright Fellowship and spent a summer at the Rudger-Boskovic Institute in Zagreb, Croatia (then Yugoslavia). He attended and helped organize an important international school and conference in Dubrovnik that continues today.

In 1988, Dr. Seitz was named Dean of the Moody College of Marine Technology where he oversaw a major expansion of research faculty at the campus. He also (at the same time) began the formal continuing education program at TAMUG. He used the Center for Marine Training and Safety as a mechanism to develop maritime training programs for industry taught by TAMUG faculty and others. He was also Interim Associate Campus Dean for Research from 1993-1995.

In 1996, Dr. Seitz took a faculty development leave and joined the Heinz Center for Science, Economics and the Environment in Washington, DC as a Senior Fellow. At the center he developed the computational support center and was significantly involved with a major federally supported study of the effects of erosion on FEMA's flood insurance program.

After returning from Washington in 1998, Dr. Seitz continued his research program which has resulted in over 90 publications in refereed journals. In 2000, he was asked to serve as Interim Head of the General Academics Department. In 2002, he again became Head of the Marine Sciences Department.

In 2006, he was named a Regents Professor of Texas A&M University System. He also began a new administrative appointment as the Associate Vice President for Research and Graduate Studies.

He next served as Executive Vice President and Associate Provost before returning to the faculty in 2012. His current interests are in complexity theory and entropy.

Predavanje je namijenjeno svim znanstvenicima, jer će obraditi top područje o kompleksnim sustavima u interdisciplinarnim i multidisciplinarnim znanostima. Danas se više ne može istraživati samo u jednom području, a pojavom kompjutorskog modeliranja javljaju se i mogućnosti za rješavanje problema u kompleksnim sustavima ili barem imamo takav osjećaj.

Komentar Sonje Nikolić da potakne i one neodlučne da dodju na predavanje i kreativno diskutiraju