

Special Session *Information in Natural Sciences*

Session organizer: **Annette Grathoff**

The schedule is designed in Los Angeles time while the time at the place of the presenter is given in parentheses. It is supposed that between each two talks, there is a 5 minutes break for questions and discussion. In other words, it is 15 min presentation + 5 min questions and discussion. It is also possible to make 20 minutes presentation without discussion after it.

Meeting 1

Monday September 13 11:00-12:00 LA (13:00-14:00 Bogota and 20:00 - 21:00 Western Europe)
18:00-19:00 UTC

11:00 (20:00) Grathoff, Annette; *Heterodyning and Interference and their importance for the study of information*

11:20 Adams, Johnny; *Aging Metrics - You can't manage what you don't measure*

11:40 (13:40) Maldonado, Carlos Eduardo; *Understanding life in the light of the physics of the immaterial*

Meeting 2

Tuesday September 14 10:00 - 11:00 LA (13:00-14:00 New York and 19:00 - 20:00 Western Europe) 17:00-18:00 UTC

10:00 (13:00) Benioff, Paul; *No information at a distance and local mathematics affect physics and geometry*

10:20 Lev, Felix; *Obtaining information about nature with finite mathematics*

10:40 (19:40) Simeonov, Plamen; *Organic Mathematics for Integral Biomathics and the Reformation of Science*

Meeting 3

Wednesday September 15 16:00 - 17:00 LA (18:00 - 19:00 Chicago, 7:00-8:00 [September 16] Singapore and 20:00 -21:00 Buenos Aires) 23:00-24:00 UTC

16:00 (18:00) Kauffman, Louis; *From Distinction to Pregeometry, "It from Bit" and Topological Quantum Information*

16:20 (7:20) Kaszlikowski, Dagomir; *Negative Probabilistic Bits in Quantum Theory and Beyond*

16:40 (20:40) Lombardi, Olimpia; *About the nature of quantum information*

Meeting 4

Friday September 17 10:00 - 11:00 LA (20:00-21:00 Jerusalem, 19:00-20:00 Western Europe and 12:00-13:00 Texas) 17:00-18:00 UTC

10:00 (20:00) Menin, Boris; *Informational restrictions in the formulation of physical laws by researchers*

10:20 (19:20) Luhn, Gerhard; *The indeterminacy of scientific theories and the end of deterministic ideas*

10:40 (12:40) Tozzi, Arturo; *To know them, remove their information: an outer methodological approach to biophysics and humanities*

Presentations may be pre-recorded. See **instructions-for-authors** on the website for details.