Cologne Evolution Colloquium

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Insights into the genotype-phenotype map and how it is modulated by the environment

Understanding the causal relationship between genotype and phenotype is a major objective both in humans and plants. The main interest is in understanding trait architecture and identifying loci contributing respective traits. Genome-wide association mapping (GWAS) is one tool to elucidate these relationships and has been successfully used in many different species. However, most studies concentrate on marginal marker epistatic and gene-environment ignore effects and These interactions interactions. problematic are account for, but are likely to make major contributions to many phenotypes. Understanding these interactions is architecture crucial to conceive trait and phenotypes. I will present some data on statistical aproaches to tackle these challenges and present some results for trait analysis in Arabidopsis thaliana

Wednesday, June 28, 2017, 17:00 University of Cologne, Institute for Theoretical Physics Conference Room 2, Ground Floor

Hosted by Andrea Schrader