



COLLOQUIUM ARTS MEET SCIENCES  
European Academy of Sciences and Arts Salzburg,  
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***Videmus nunc per speculum in enigmate. Human development as an arts project from the perspective of Chaos theory and Synergetics: Existential border experience-processdynamic approaches after Karl Jaspers***

The basic idea of this project is that human beings not only are artists and are able to create artistic artefacts, but that life and human development is arts in a general and broad sense. There are some ways to visualize development as patterns of change. One is visualization by multiple time series which are created by repeated self-assessments during a certain period of life. In our case, this is the period of (inpatient or outpatient) psychotherapy which can be seen as an intensive period of transitions in personality and life style. Quantitative and qualitative data can be analyzed by nonlinear methods showing patterns and pattern transitions of ongoing therapeutic change. Colored diagrams created by methods from chaos theory and the theory of self-organization (Synergetics) like Recurrence Plots, complexity resonance diagrams or Meta-correlation matrices illustrate or paint pictures of change. The paintbrush is here a digitalized technology of data acquisition, analysis and visualization, the artist id each patient using this technology. More than this, a new mathematical theory of therapeutic change creates chaotic attractors and bifurcation diagrams which document the esthetics and beauty of change. We see how and in as far the esthetics of natural sciences, computer technology, and human life is linked to each other.