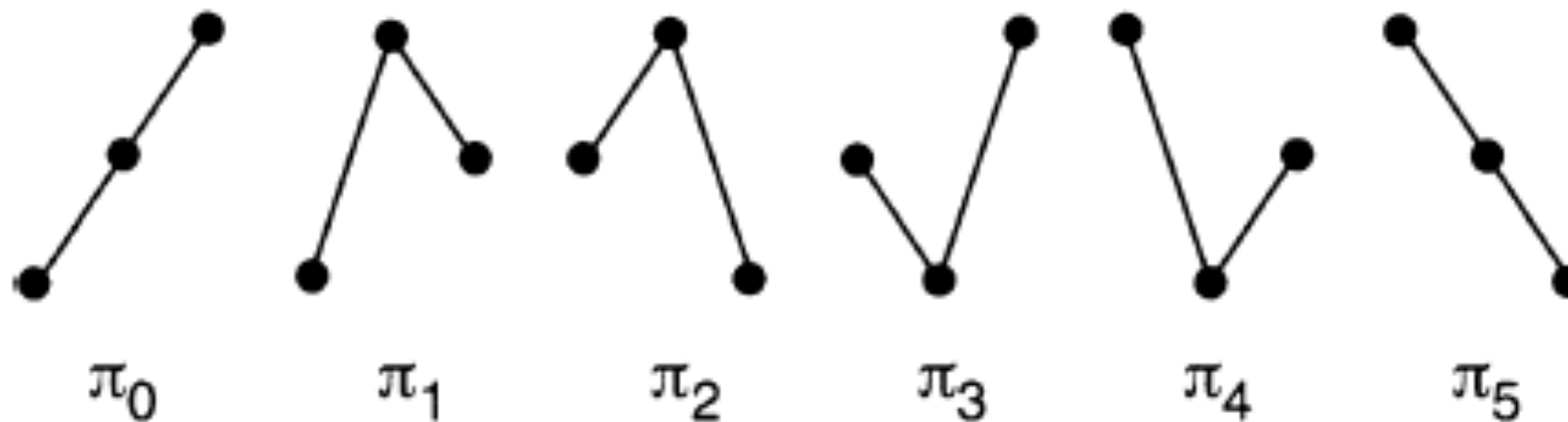


## Order Patterns Recurrence Plot

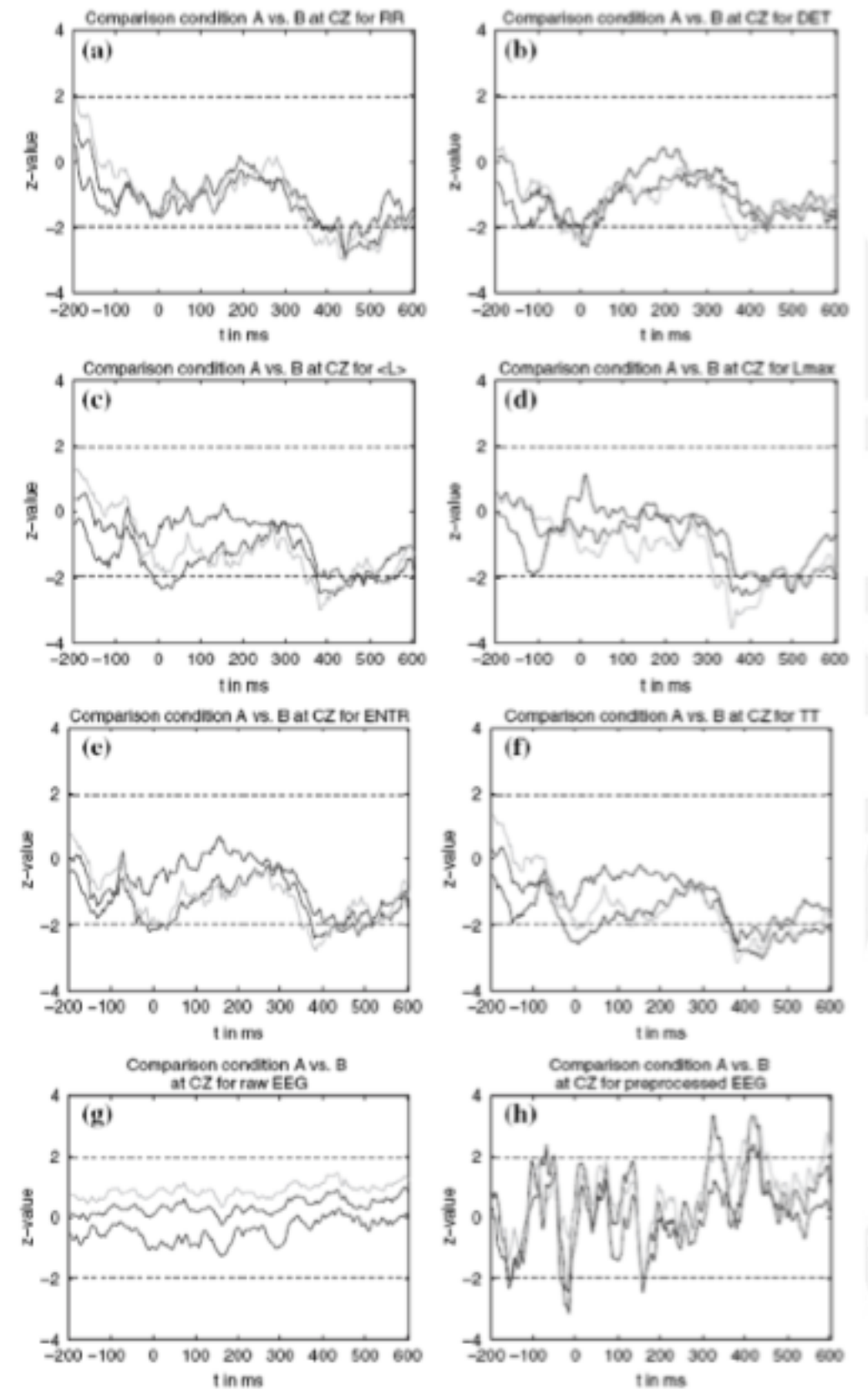
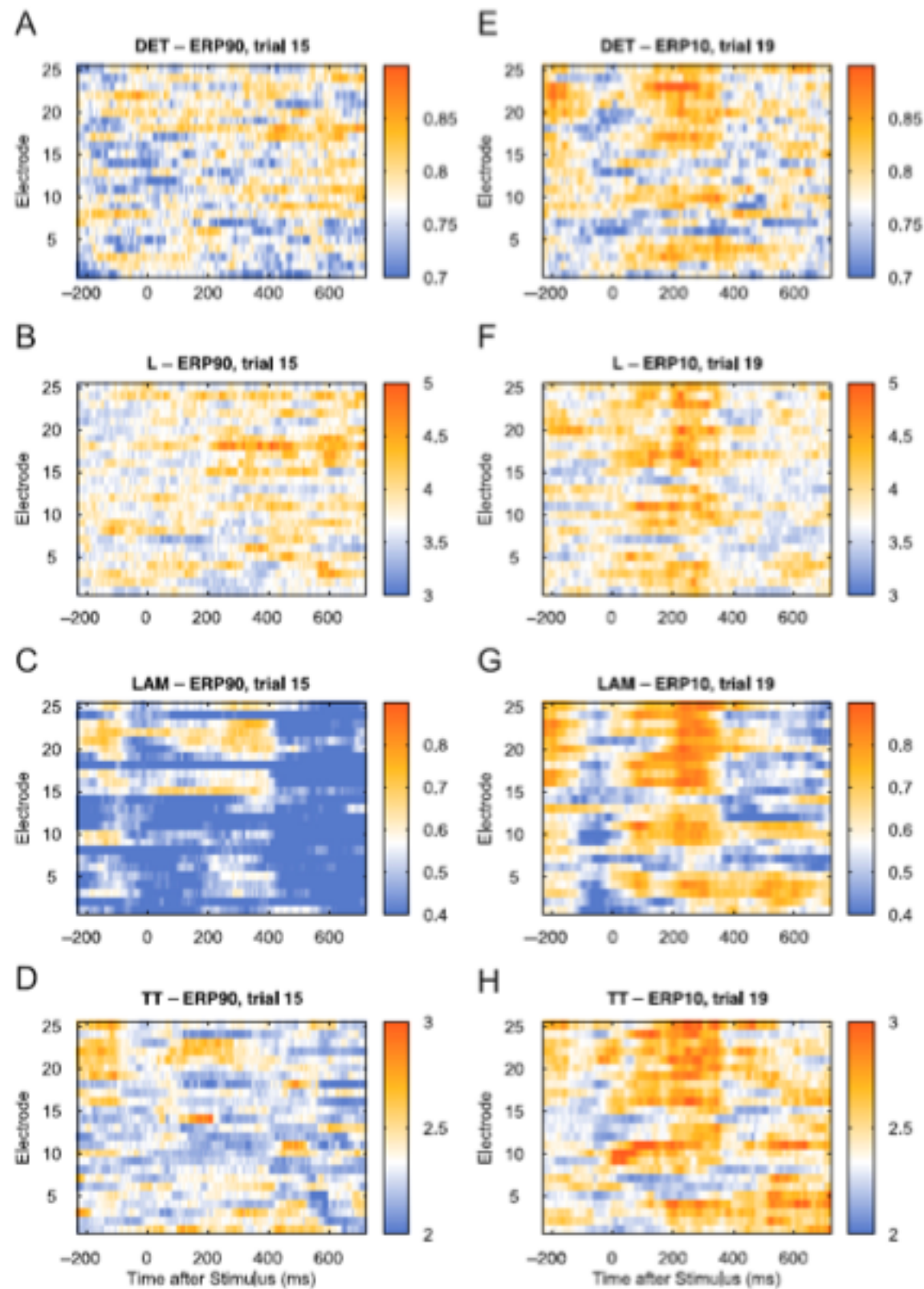
- Sort of “filter”: not recurrences of values, but order patterns



**Fig. 2** Order patterns for dimension  $d = 3$  (tied ranks  $u_i = u_{i+\tau}$  are assumed to be rare)

### Order patterns recurrence plots in the analysis of ERP data

Stefan Schinkel · Norbert Marwan ·  
Jürgen Kurths



Schinkel, S., Marwan, N., & Kurths, J. (2009). Brain signal analysis based on recurrences. *Journal of physiology, Paris*, 103(6), 315-23. Elsevier Ltd. doi:10.1016/j.jphysparis.2009.05.007

Schinkel, S., Marwan, N., & Kurths, J. (2007). Order patterns recurrence plots in the analysis of ERP data. *Cognitive neurodynamics*, 1(4), 317-25. doi:10.1007/s11571-007-9023-z