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Title: The HEURECA Method: Tracking Multiple Phase Coupling Dynamics on a Single Trial Basis

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### Highlights

- The HEURECA method is introduced.
- HEURECA detects time segments of quasi-stable EEG phase coupling patterns.
- HEURECA enables the detection of complex, multivariate phase associations.
- HEURECA determines synchronostates, i.e. recurring EEG phase coupling topographies.
- HEURECA works on a single trial basis.

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