ACTUAL **SESSIONS**

| (analyzes |
|---------------|
| 1. DAT |
| a |
| 2. DEE |
| (a) So |
| (b) Co |
| (c) Ca |
| (d) Dy |
| |
| (e) At |
| |
| 3. OUT |
| |
| |
| |

feedback to therapist, coding, and time series analysis

Figure 4. The Characterization Routine. A computerized Characterization Routine (central blue box) analyzes time series data from either actual therapy sessions or from a mathematical model, for deep characteristics, producing reports of characterized session data. These data feed back to improve therapy sessions, adjust selection and coding of key variables, change deep characteristics, and reject nonconforming models. The Characterization Routine can easily be modified for different sets of key variables and deep characteristics, and is adaptable to different modes of therapy.



Time Series Data From Mathematical Models

Characterization Routi (programmed in R)

s time series data for deep cha

AACCEPTANCE SUBROUTINE (opens nd takes in time series data) **P CHARACTERISTIC SUBROUTINES** orting for Curve shapes – PNP, NLN, P ounting multiple PNP dips alculating stickiness of client affect ynamic invariant characteristics (to be

e.g. autocorrelation, cross-correlation tractors and other signatures

of nonlinear dynamical systems (to be **PUT SUBROUTINE (displays and store** assessed deep characteristics)





| ne | |
|--|--------------------|
| racteristics) | |
| s data file | |
| LP, etc. | |
| e developed) | |
| developed) es | |
| ct non-conforming I adjust model coef | models ficients |



