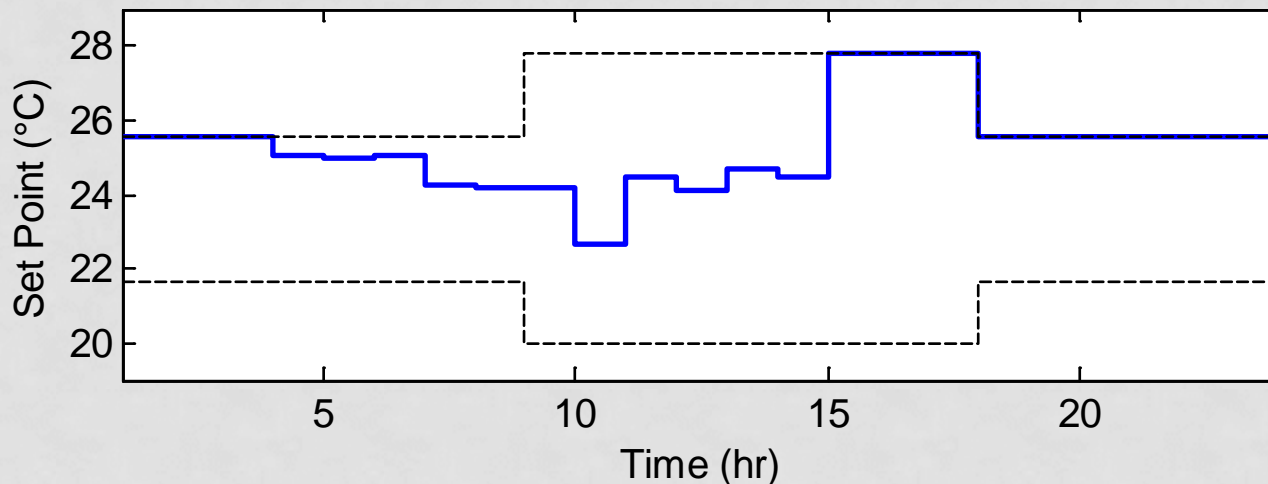


REDUCED-ORDER HOME MODELING FOR THERMOSTAT CONTROL

Wesley Cole, Dr. Thomas Edgar

Goals:

- Use NREL's BEopt software to develop custom EnergyPlus residential home energy models
- Reduce the models to a single equation
- Implement control algorithms to manage thermostats



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CLUSTERING USING 1-MIN DATA

- Utilizes Dynamic Time Warping to align profiles

