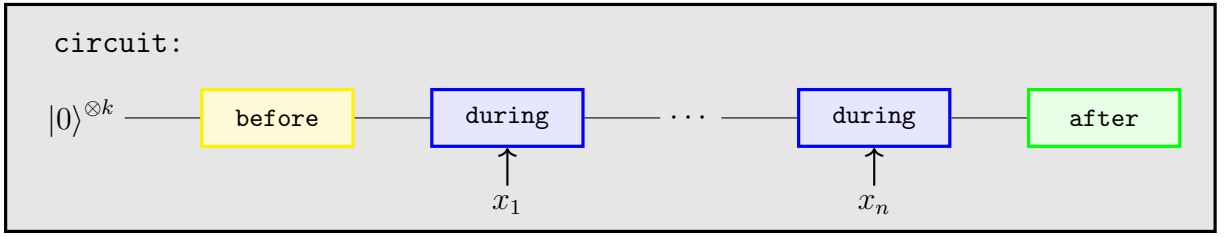
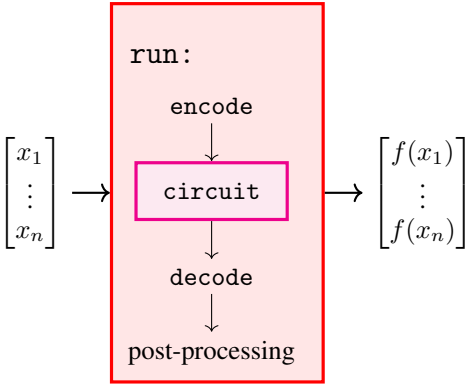
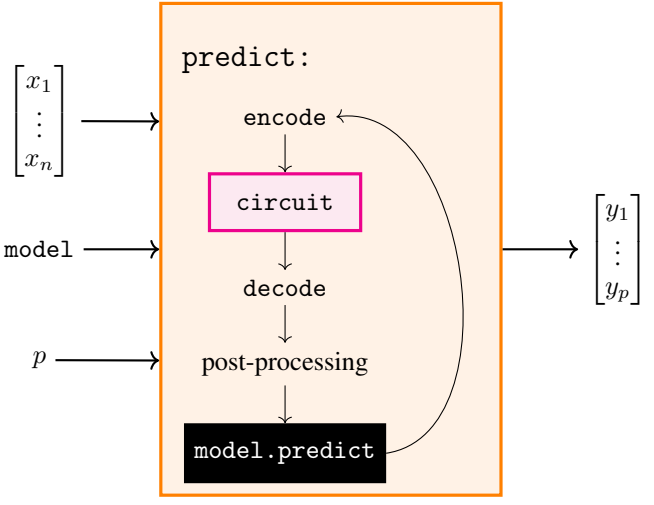


(a) A functional overview of the hidden quantum circuit architecture common to all quantum reservoirs, where x_t is the observed input sequence. The customized `before`, `during`, and `after` methods are applied sequentially to the quantum system.



(b) The input timeseries is encoded into the quantum circuit. After measurements are decoded from the quantum circuit, they are post-processed into the transformed feature vector.



(c) The feature vector produced by encoding, decoding, and preprocessing is used by the model to predict the next step in the timeseries. This process is repeated p times and returns the resulting prediction sequence.