**MAIN RESULT**

For the PM scheme, under appropriate technical assumptions, the following dynamical system decoder achieves capacity:

- Guess the state at time $n$ to be $u \sim \text{Unif}(0,1)$
- Then recursively solve previous states
- Finally, we arrive at our estimate of $W_n$,

As long as our estimate is within $2^{(nC+1)}$ of our actual message, we can decode $n$ bits.

**REFERENCES**