

Partial Soft Decode and Forward

Pir S. Ahmed (Comsats, Abbottabad)

Robert G. Maunder

Lajos Hanzo

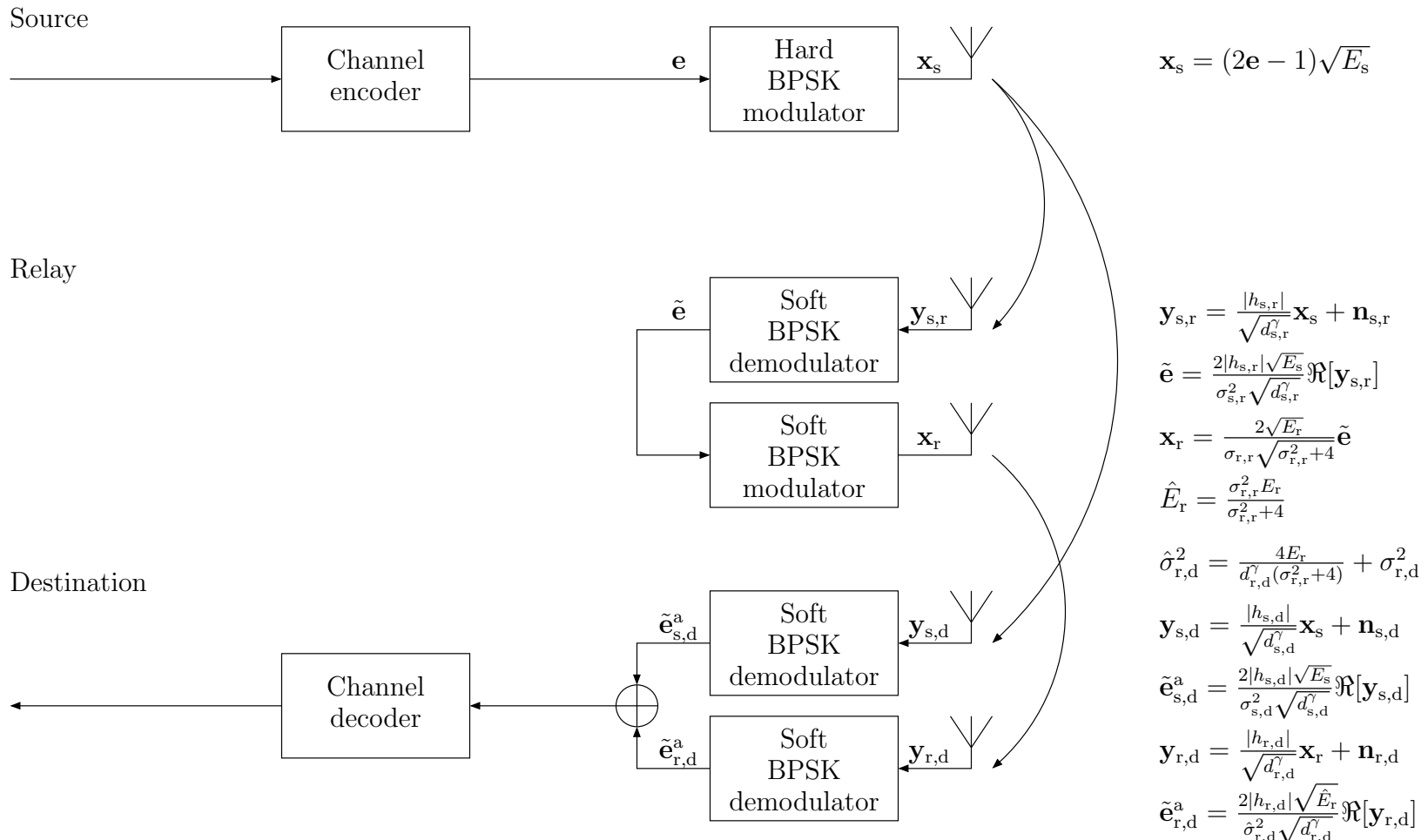
Rob Maunder

7 September 2011

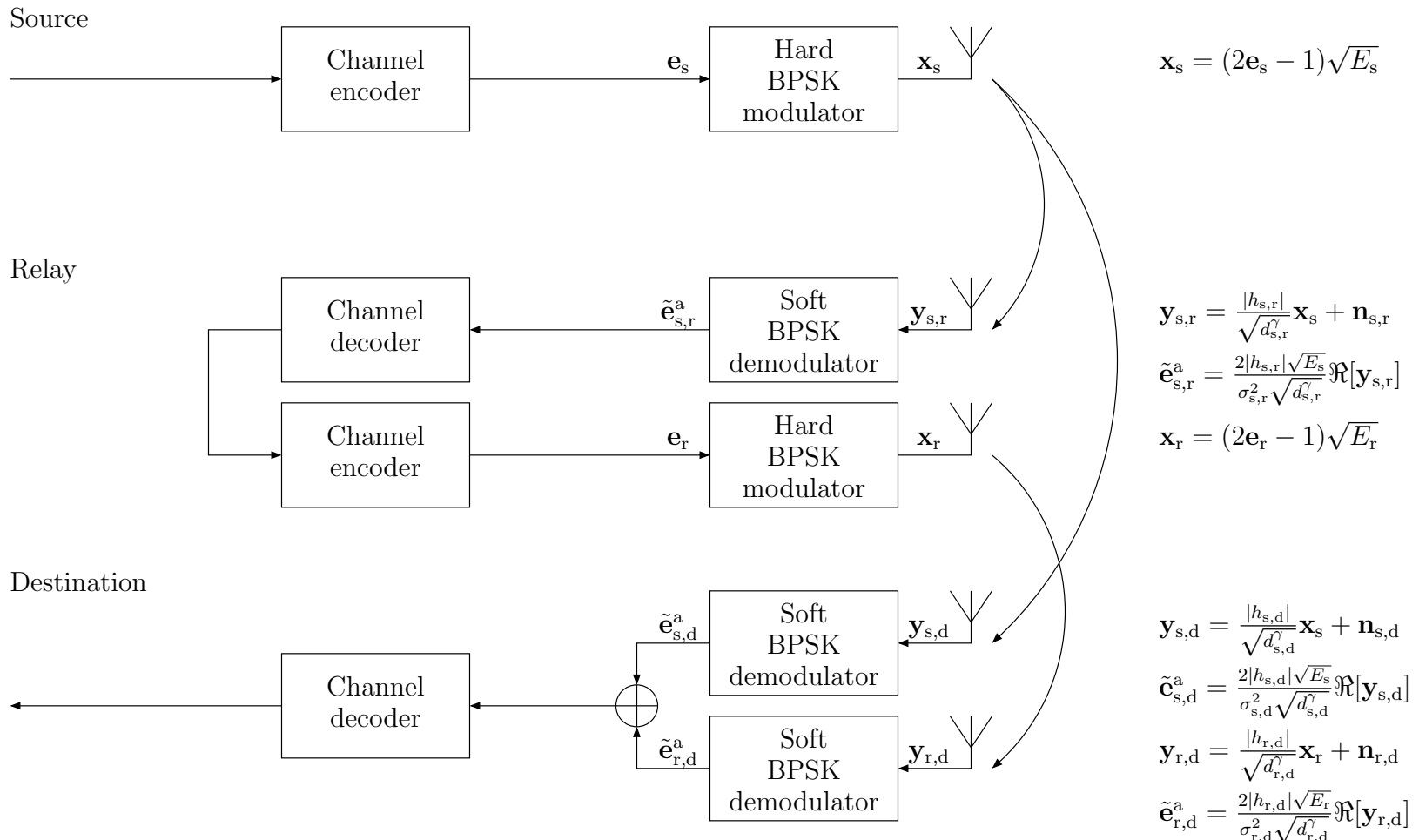
Overview

- Amplify and forward
- Decode and forward
- Distributed turbo code
- Soft decode and forward
- Partial soft decode and forward
- Comparison

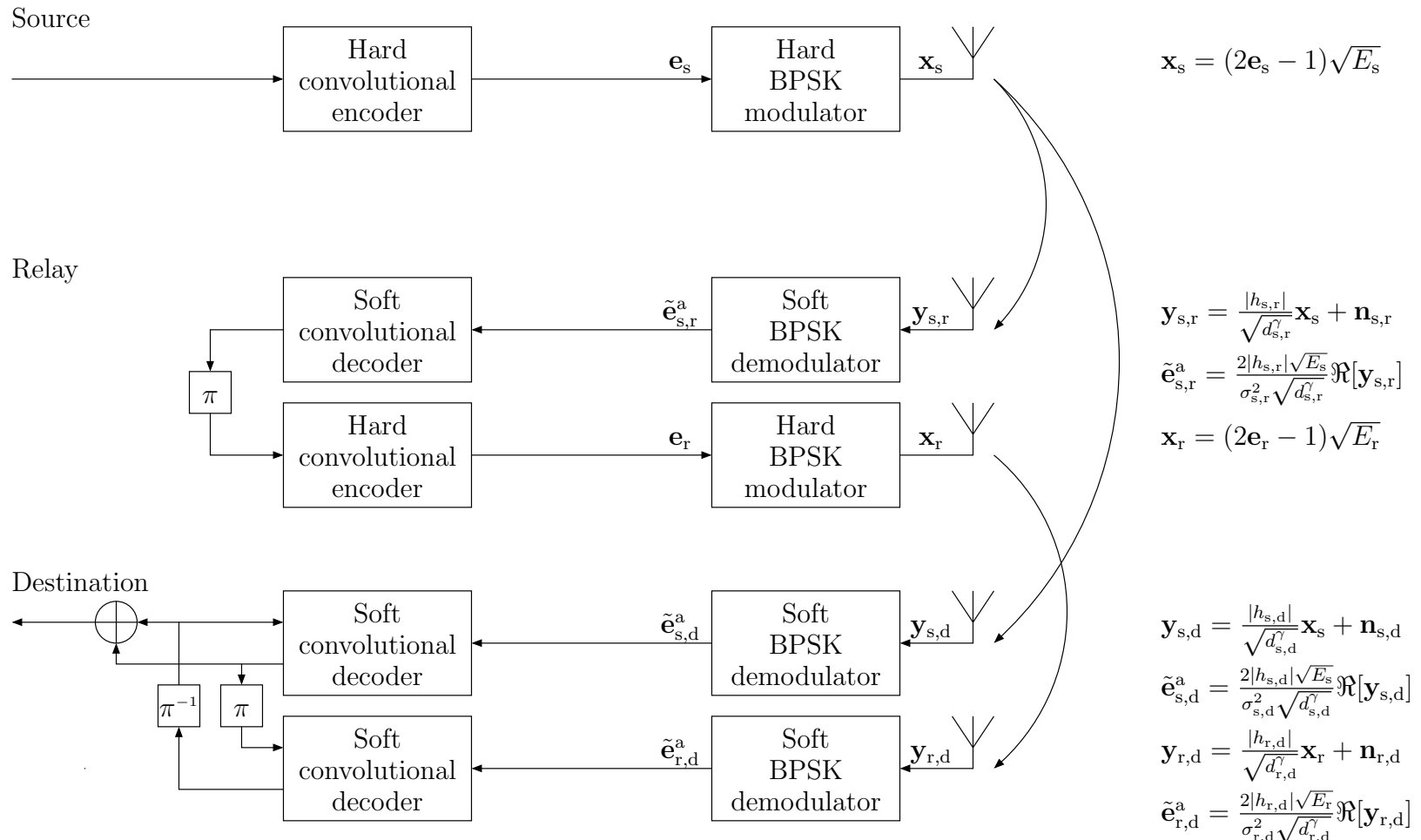
Amplify and forward



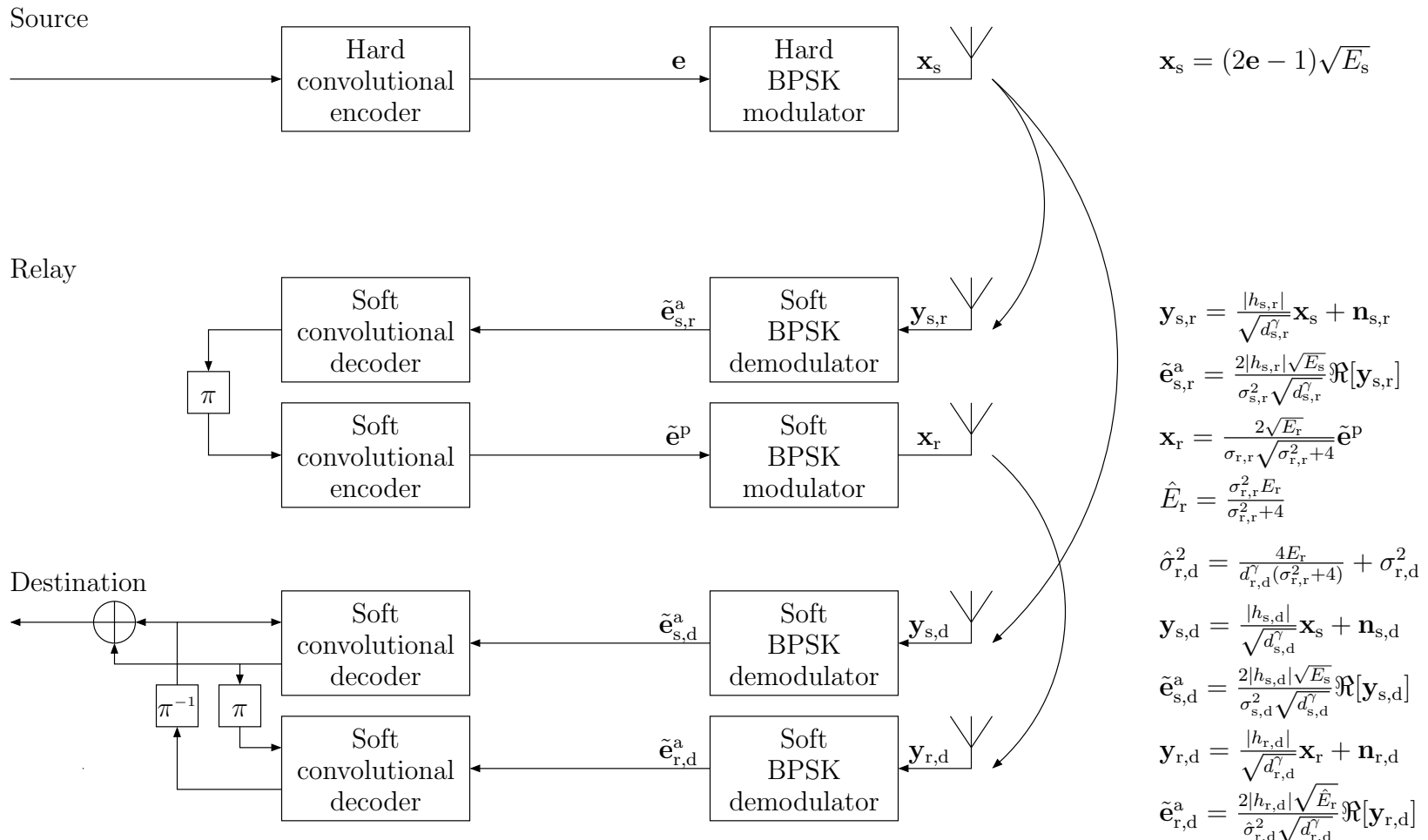
Decode and forward



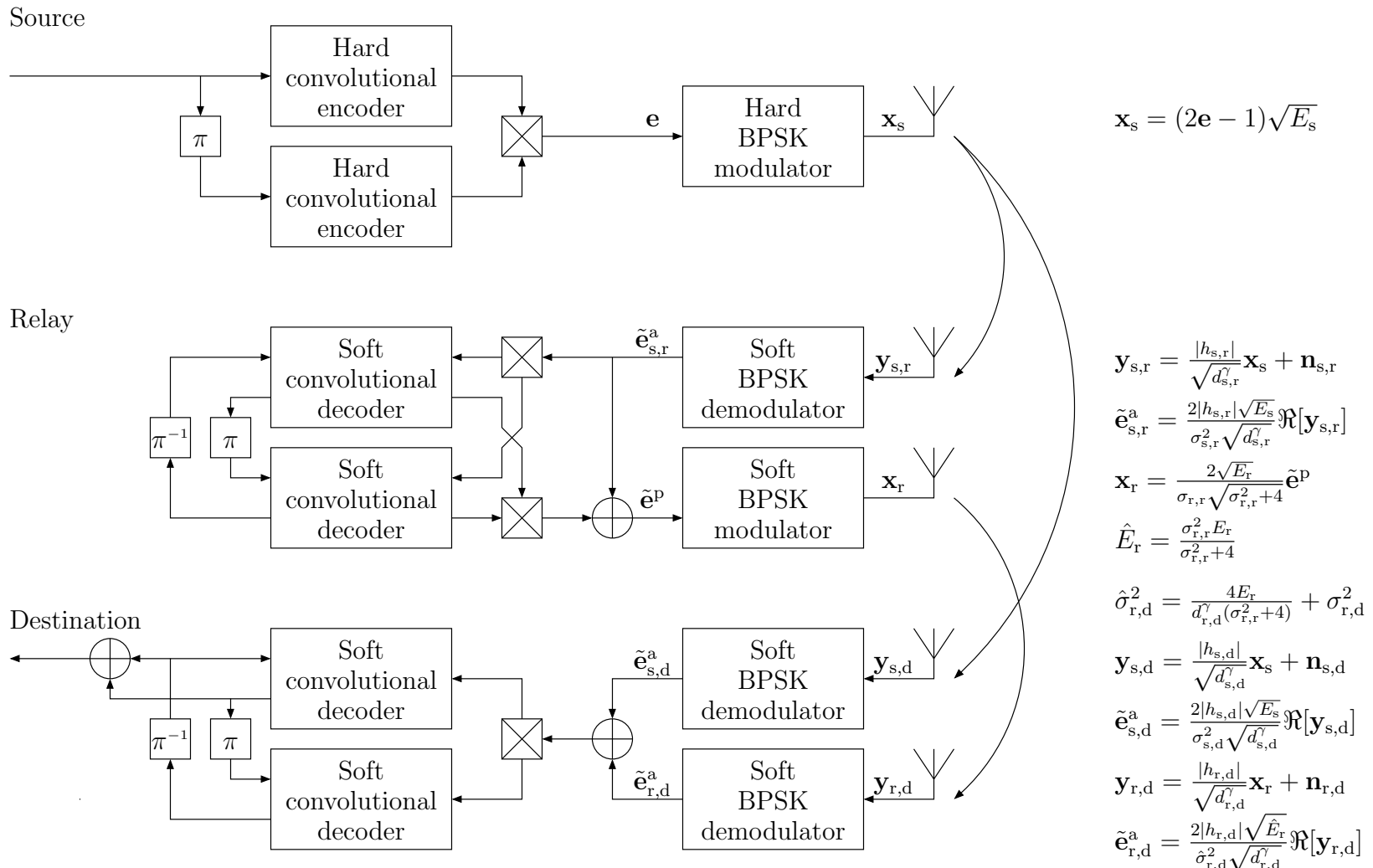
Distributed turbo code



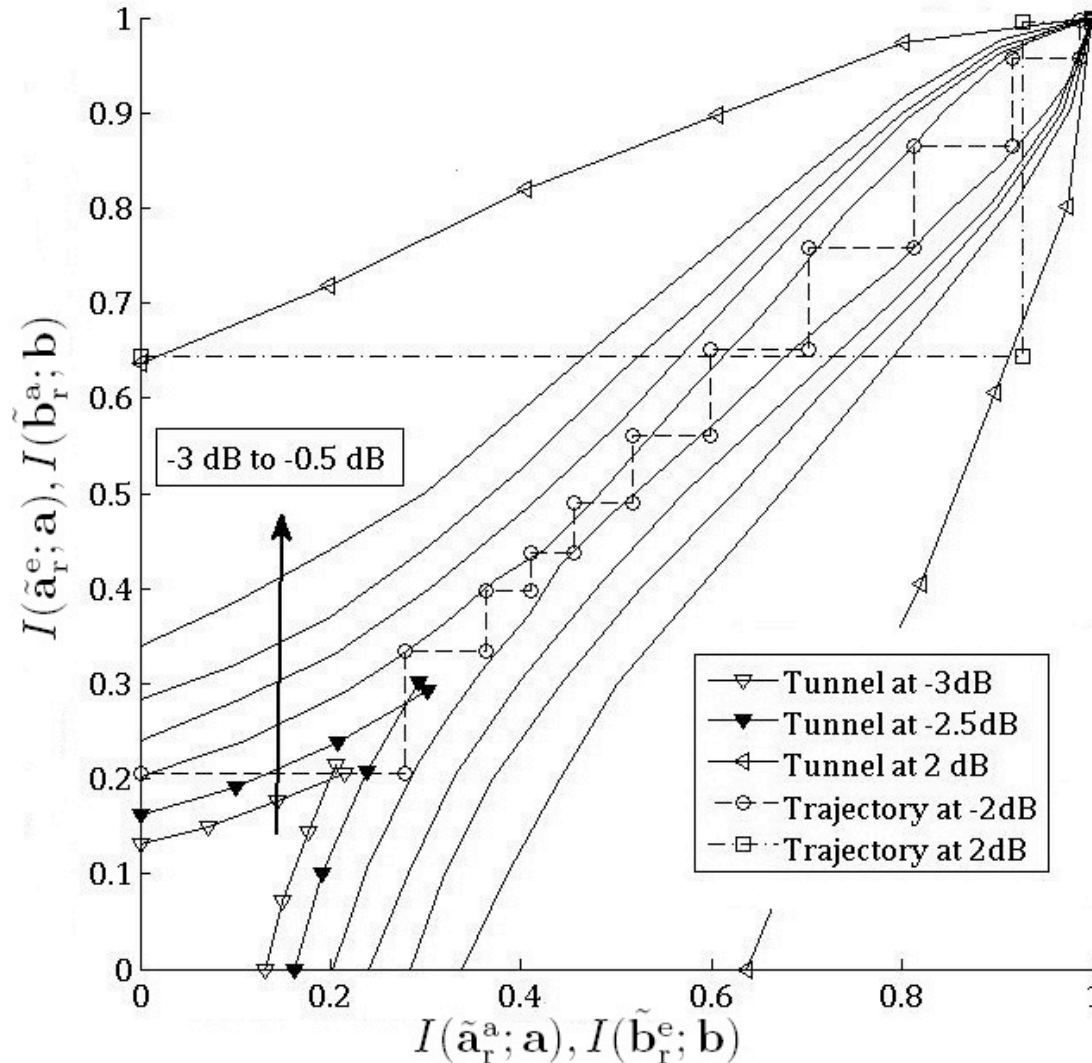
Soft decode and forward



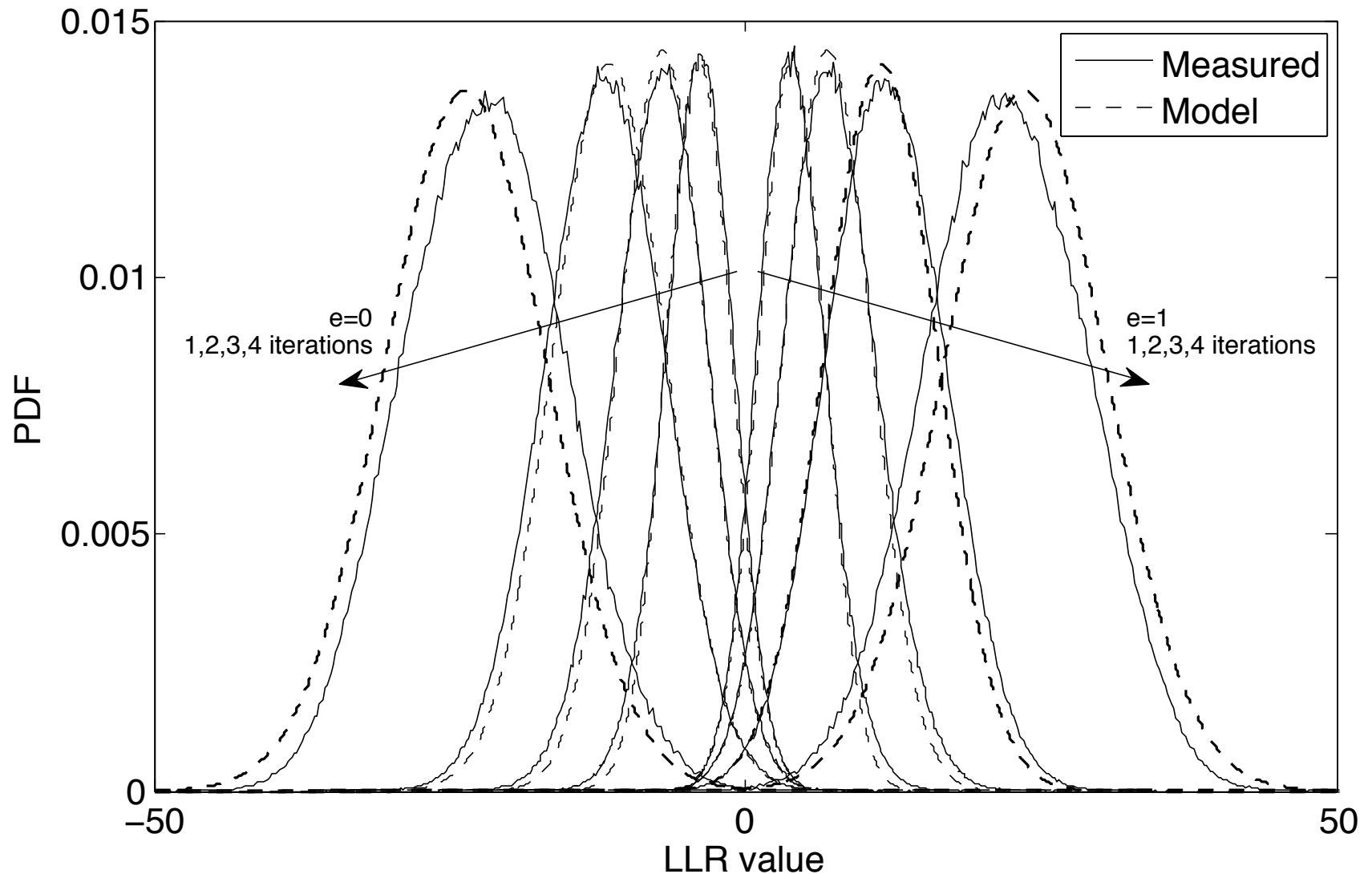
Partial soft decode and forward



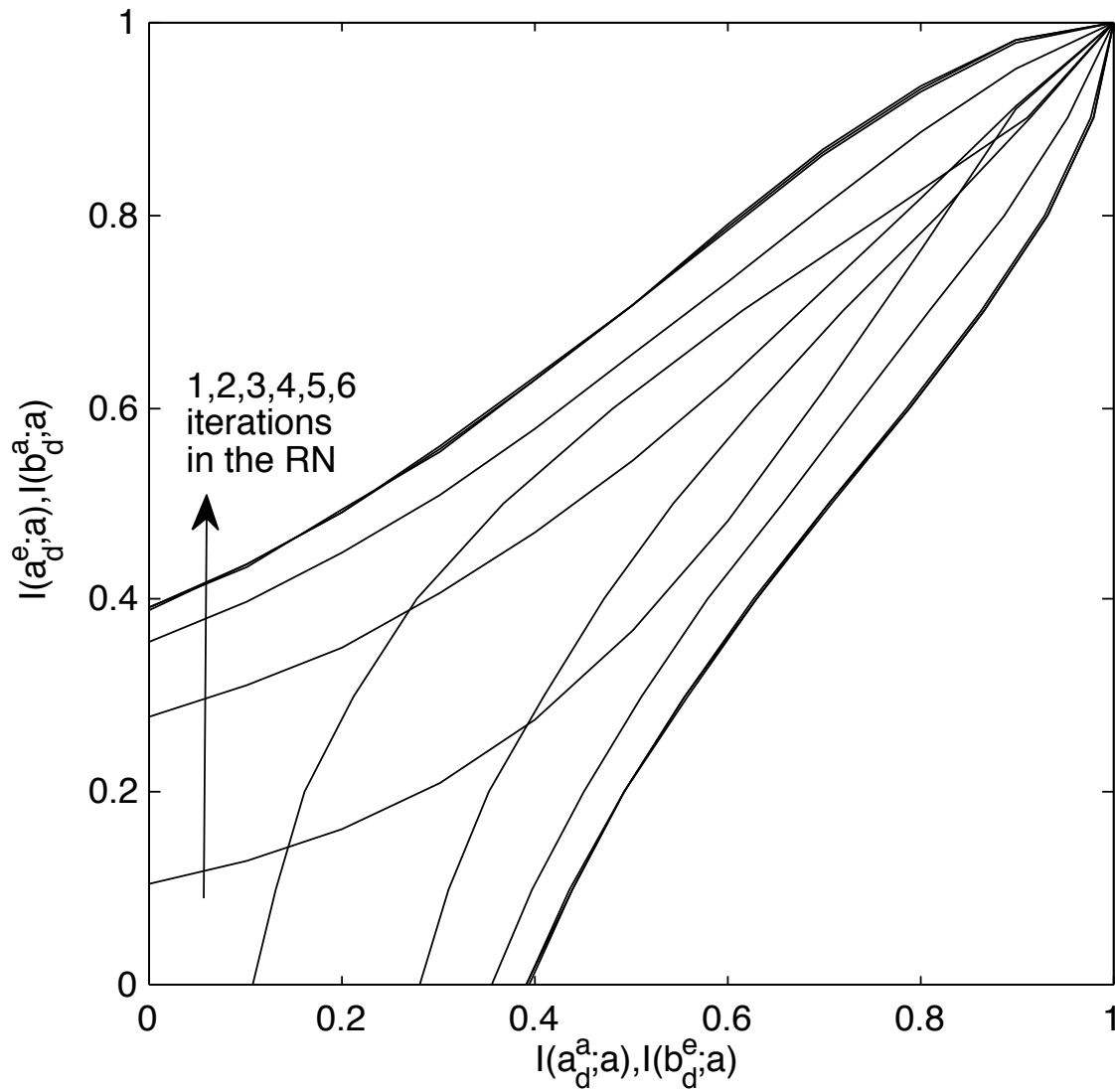
Relay EXIT chart



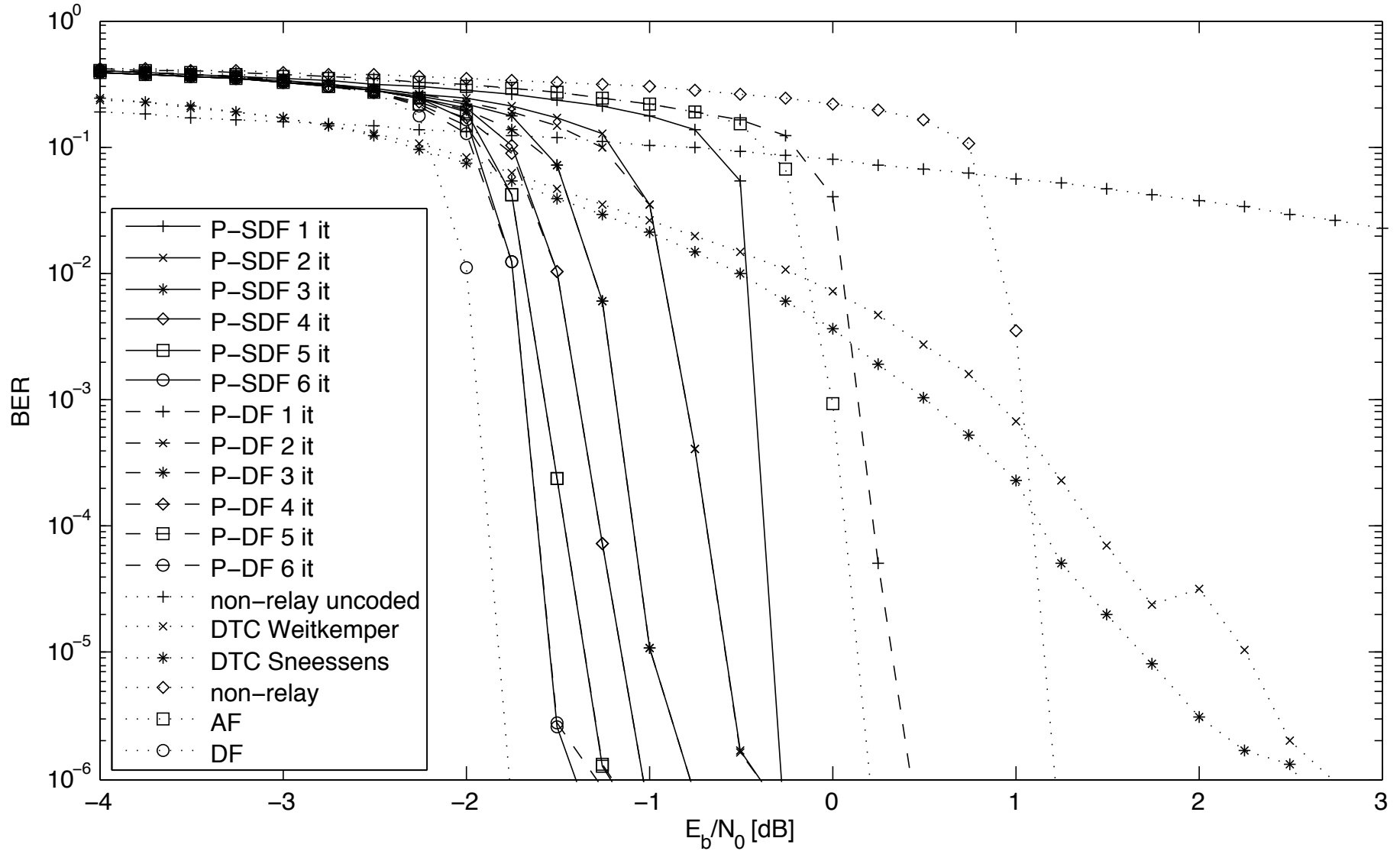
Relay LLR distribution



Destination EXIT chart



BER results



Thank you!