



















## Lossless Coding of S Discrete source S must be reconstructed losslessly (P<sub>e</sub> -> 0) at decoder Conditionally (on S) iid observations Fix sum of rates to be R If K goes to infinity and sensors could cooperate, could pool observations to recover S perfectly

• Non-cooperative sensors <u>cannot</u> achieve perfect reconstruction at decoder for any finite R [7]

and if R > H(S) could losslessly transmit S



