Codes for parallel Z-channels and related combinatorial problems

R. Ahlswede and <u>H. Aydinian</u>

We introduce two models of channels for transmission via parallel Z-channels. For each channel model (which depends on the conditions of errors in the subchannels) we present constructions of error correcting/detecting codes and bounds for the size of those codes. We also discuss some combinatorial extremal problems related to the subject.