## Notebook Screen Capture

## Part a: K = 5 Rate 1/2 Code

In this first part you will create a fec\_conv object for the K=5 code of Table 1. You will create a BEP plot similar to that found on page 7-41 of the Chapter 7 (text Chapter 12) notes. Note: You will need to increase D to about  $5\times 5=25$ . Unlike the notes example, your results will be for soft-decision decoding. Functions for computing soft decision decoding upper bounds are contained in the module fec\_conv.py. In addition to the BEP plot, also provide the trellis plot and a traceback plot under low and high SNR values.

```
# Instantiate a fec_conv coder/decoder object
cc1 = fec.fec_conv(('10011','11101'),25)
cc1.trellis_plot();
```

