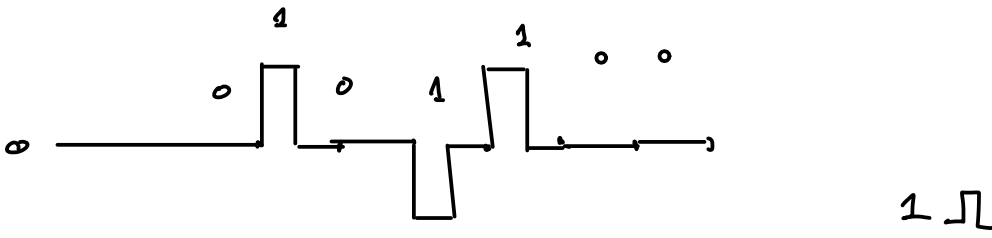
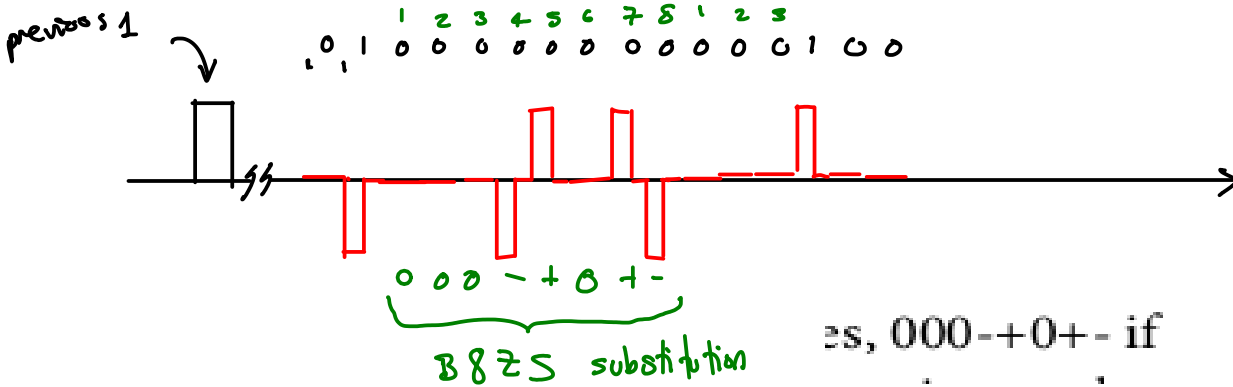


Lecture 7 - TDM and T-Carriers



Exercise 1: Convert the sequence 0100 0000 0000 0100 to a B8ZS waveform assuming the previous mark was transmitted as a positive pulse.



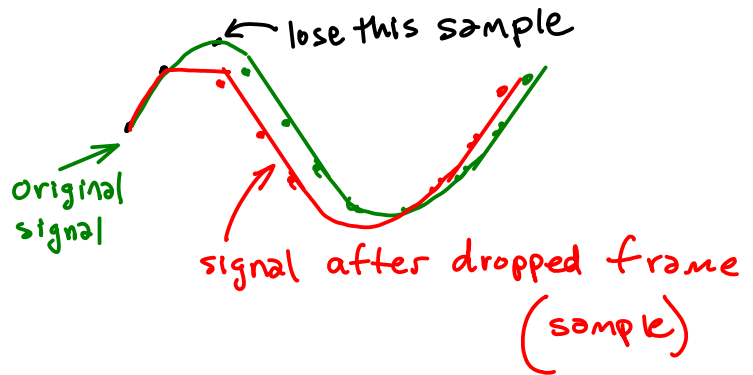
Exercise 2: How often do frame slips happen for an error of 10^{-11} ?

$N = 193$ (single T1)

$\Delta R = 10^{-11} \cdot 1.544 \times 10^6$

$\Delta T = 12.5 \times 10^6$ s

one slip every 144 days



T3 multiplexing

