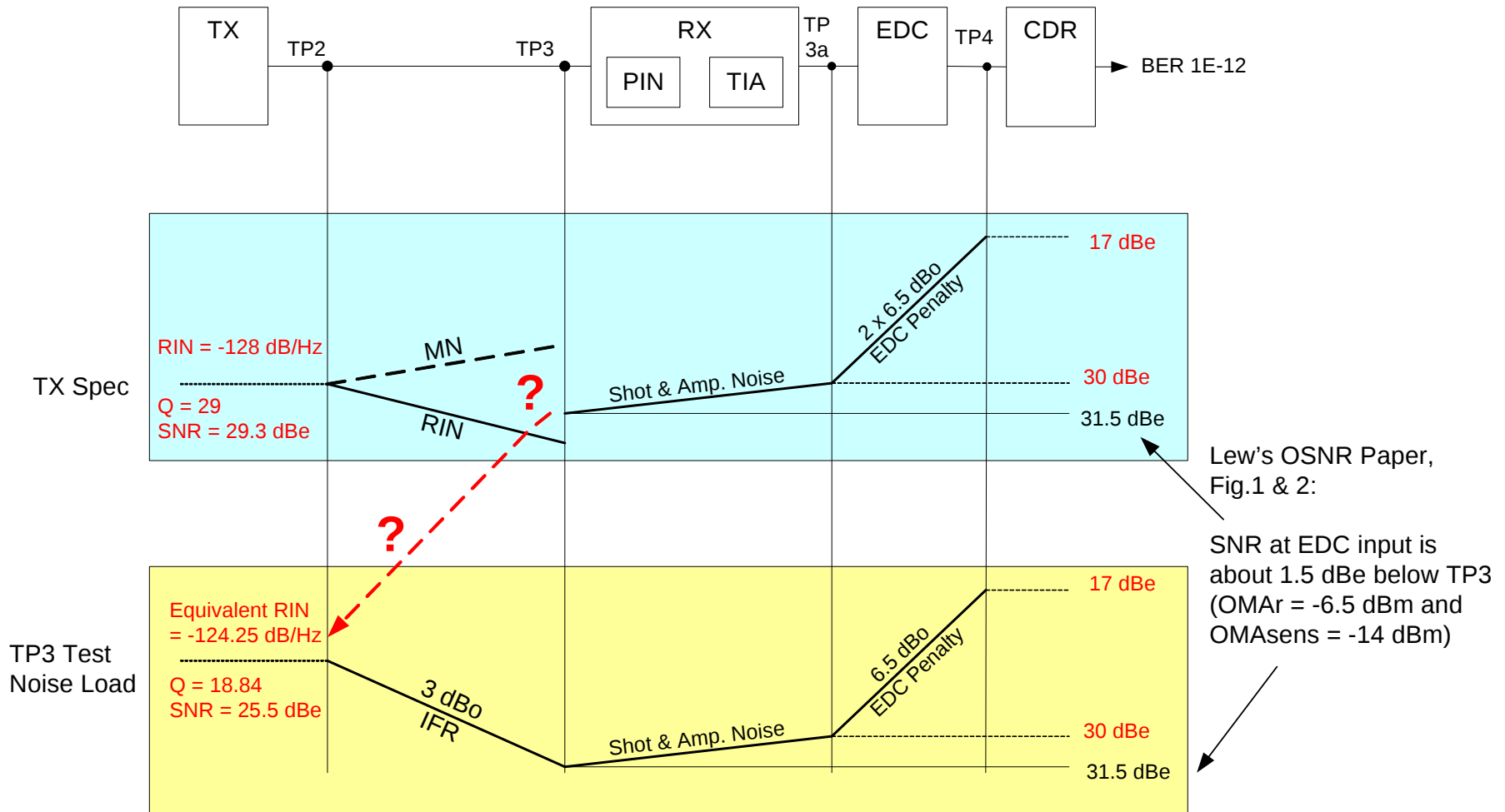


Link SNR and TP3 Noise Load

Albrecht Rommel

Link SNR



Lew's OSNR Paper, Fig.1 & 2:

SNR at EDC input is about 1.5 dBe below TP3 (OMAr = -6.5 dBm and OMAsens = -14 dBm)

$$SNR = 20 \log Q = 20 \log 18.84 = 25.5 \text{ dBe}$$

$$RIN \times OMA = -20 \log 18.84 - 10 \log 7.5 \text{ GHz} = -124.25 \text{ dB/Hz}$$