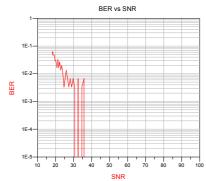
Eqn KaiserGain =1.653

Eqn MeanPn = mean(Pn)

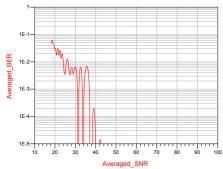
Eqn SNR = Ps - MeanPn

Eqn BER = real(max(var("Count-")[0]+var("Count+")[0]) / Bits[0])

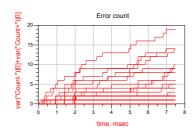


Eqn Averaged\_BER = interpolate("spline",BER,1,[10::1::1000])

Eqn Averaged\_SNR = interpolate("spline",SNR,1,[10::1::1000])



Averaged\_SNR



Link budget simulation results

R	Ps	Pn	BER	SNR	MeanPn
10.00000 35.00000 35.000000 85.000000 85.000000 110.000000 120.000000 120.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.000000 235.0000000 235.000000	-14.985806 -36.748501 -46.11.1868 -56.641034 -60.1933 -60.1933 -61.16268 -63.1670227 -67.876531 -71.581346 -73.175915 -74.639988 -75.992309 -77.240588 -78.97981 -79.492853 -80.525193 -81.494199 -82.415050 -83.259898 -84.121021 -84.90379 -85.677672 -86.406265 -87.099488 -87.757468 -88.385140 -89.020633 -88.61677 -90.9488 -90.751777 -90.9488 -90.751777 -90.9488 -90.751777 -90.9488 -90.751777 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.75177 -90.9488 -90.	-88.492177 -108.798577 -112.965880 -113.519246 -113.582696 -113.760524 -113.765224 -113.807435 -113.807435 -113.807435 -113.807435 -113.906540 -113.906540 -113.906540 -113.906540 -113.906540 -113.804565 -113.8661699 -114.012753 -114.013856566 -113.856556 -113.827663 -114.022523 -113.980542	0.000000 0.000000 0.000000 0.000000 0.000000	98.108013 76.345317 66.981950 60.981235 66.981950 60.981235 66.452784 52.8944007 49.943007 44.4517287 44.4517287 45.12473 39.17904 38.453830 37.101509 35.853231 34.696538 33.600965 22.568626 31.599619 30.678769 29.833921 28.972797 28.190028 27.416146 26.687553 25.994335 25.994335 25.994335 25.994335 25.994335 25.994335 25.994335 25.994335 24.06678 24.06678 24.06678 24.06678 24.0678 24.0678 24.0678 24.0678 24.0678 24.0678 24.0678 24.0678 24.0678 24.0678 25.994335 25.994335 25.994335 25.994335 25.994335 25.994335 26.904013 26.904013 26.904013 26.904013 26.904013 26.904013 26.904013 26.904013 26.904013 26.904013 26.904013 27.4786 27.	-113.093818