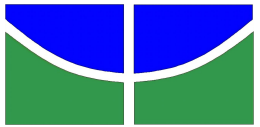


GNU Radio

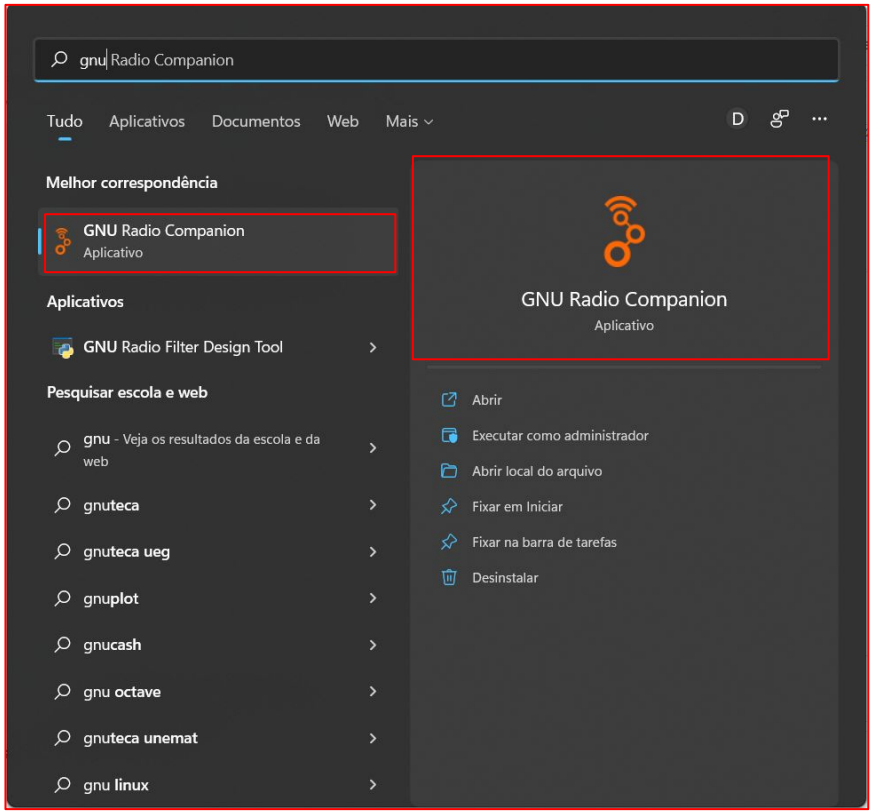
Aula 0

Links Importantes

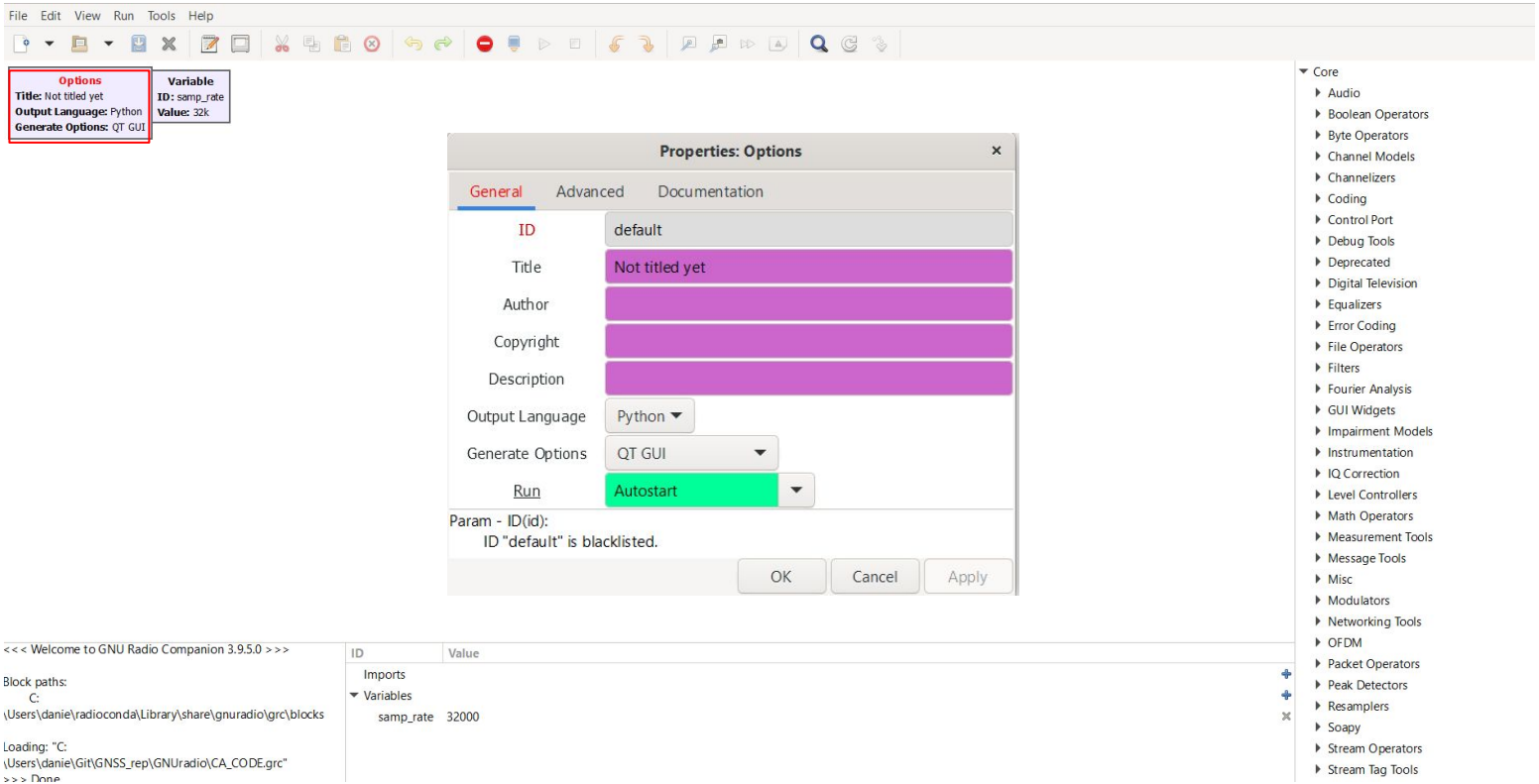
- Site do GNU Radio: https://www.gnuradio.org/docs/
- Instalação:
  - Windows, Linux e MacOs https://wiki.gnuradio.org/index.php/InstallingGR

Primeiros Passos

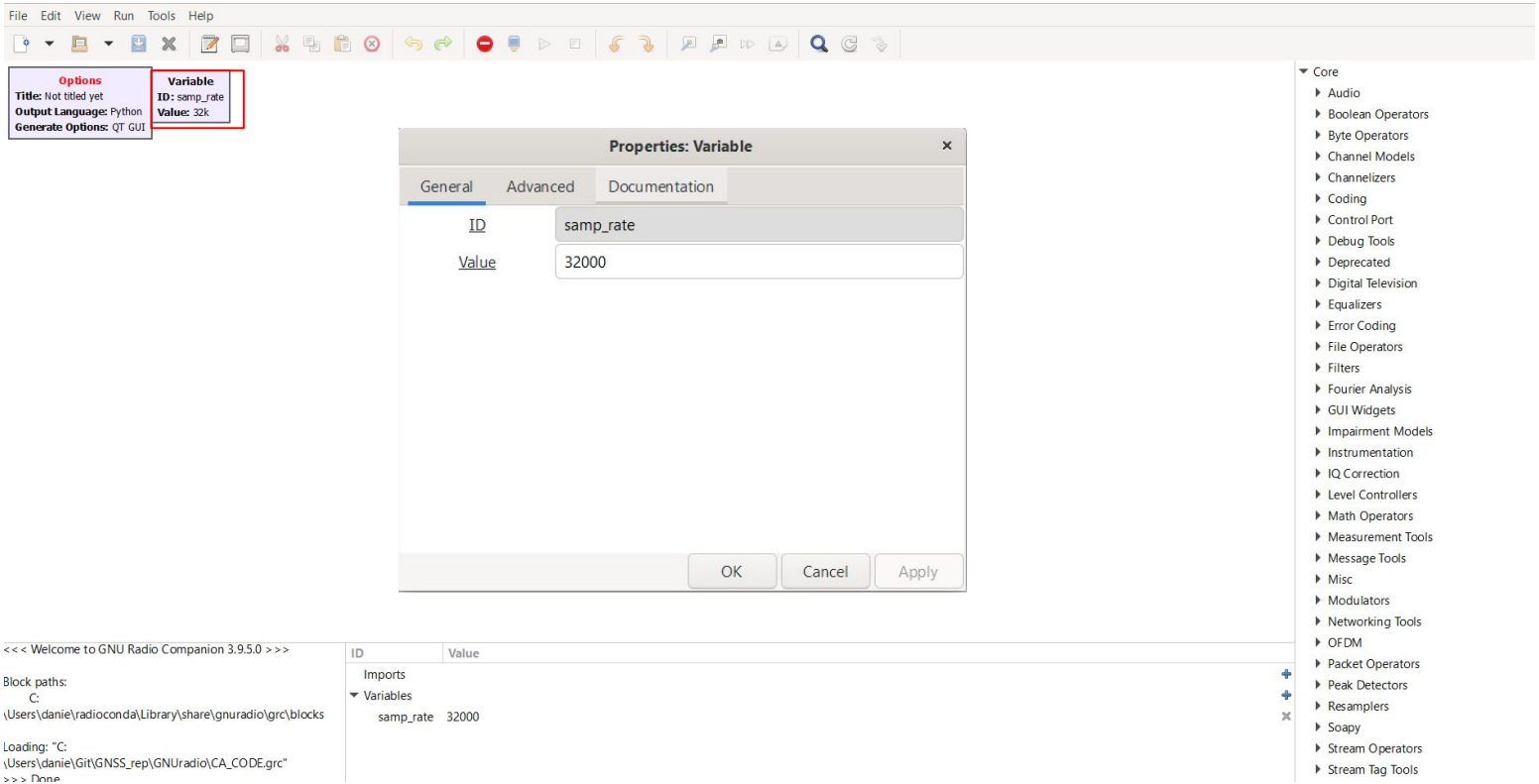
1 . Buscar no menu iniciar GNU Radio Companion
2. Abrir



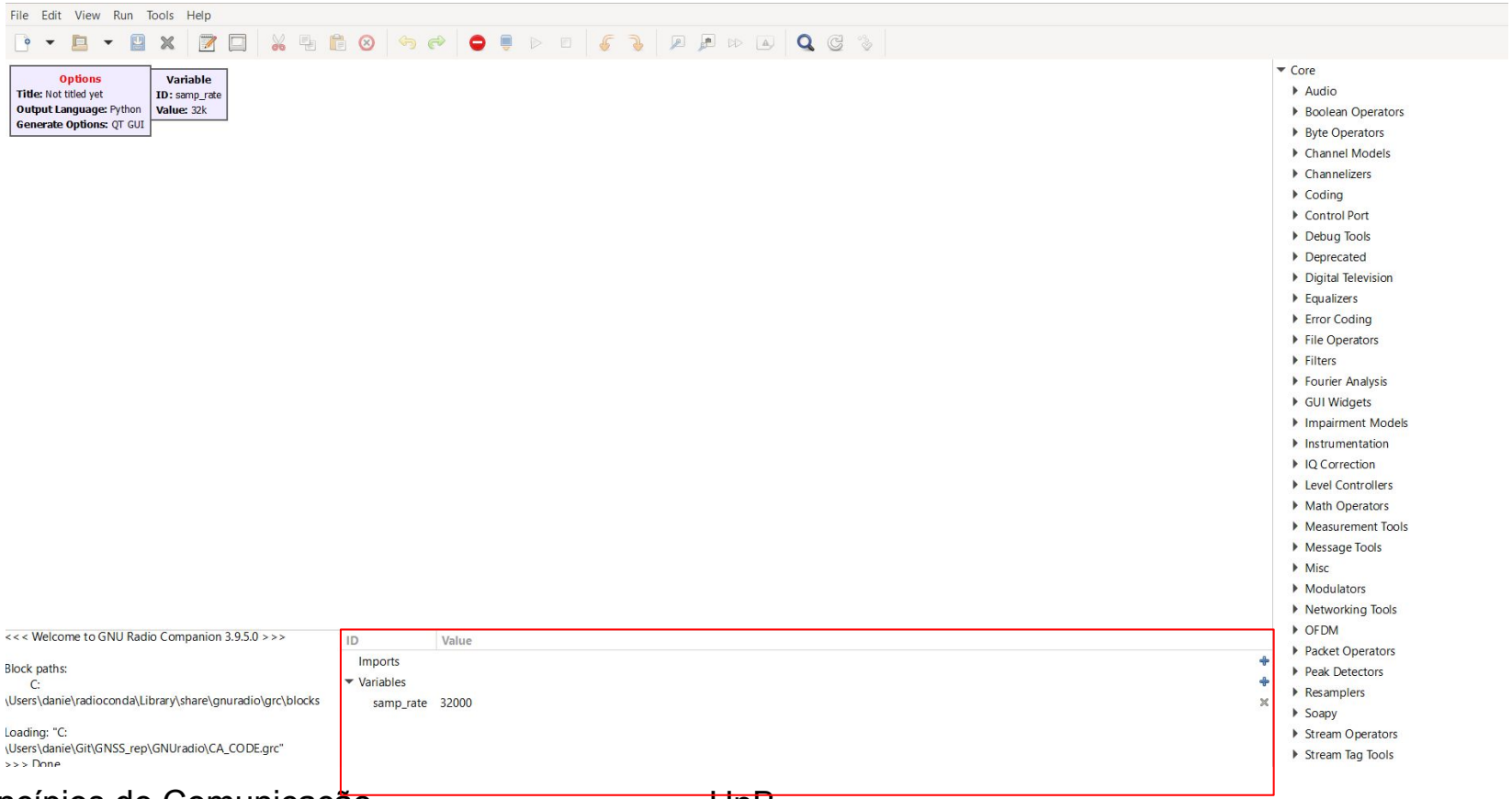
Propriedades



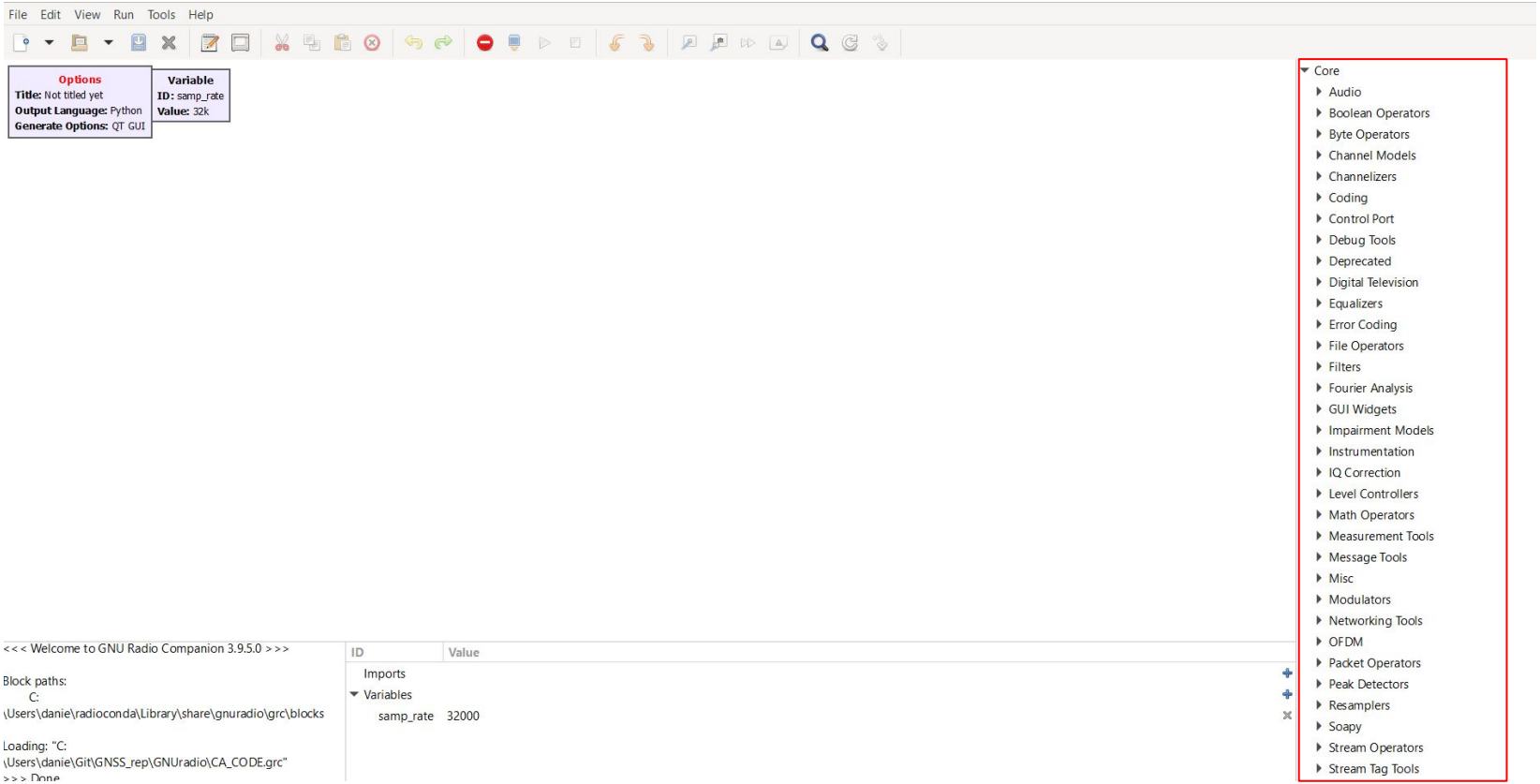
Taxa de amostragem



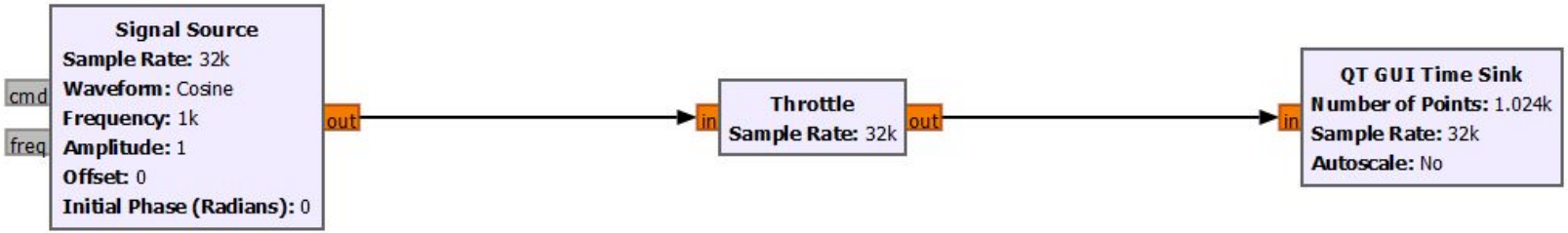
Variáveis da simulação



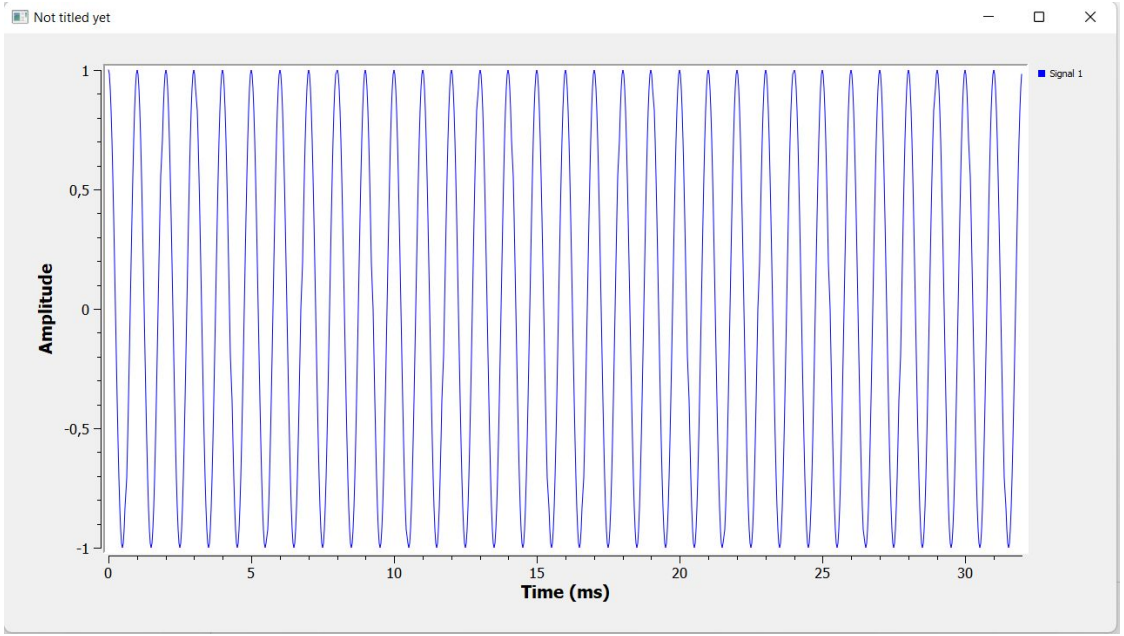
Bibliotecas



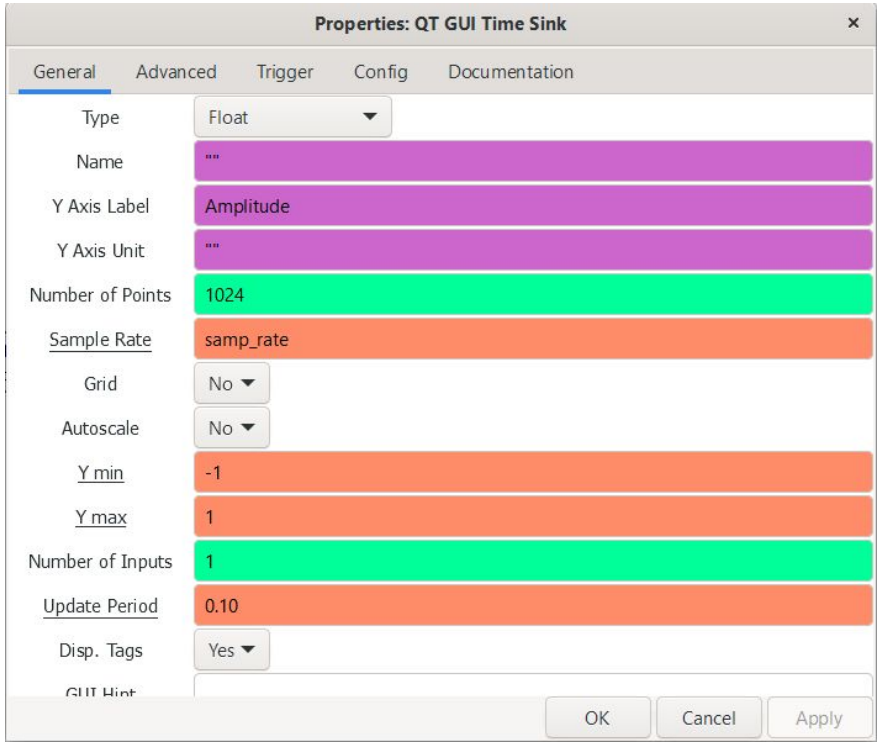
Plot do Sinal no tempo



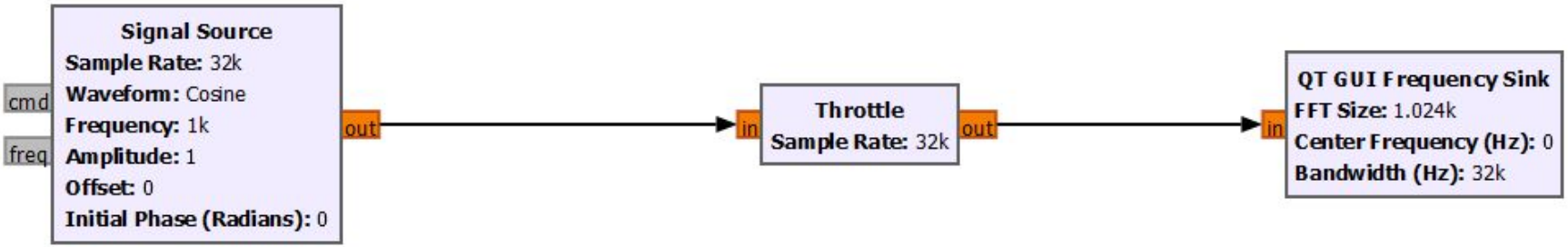
Resultado


Not titled yet
Signal 1
Amplitude
1
0,5
0
-0,5
-1
0
5
10
15
20
25
30
Time (ms)

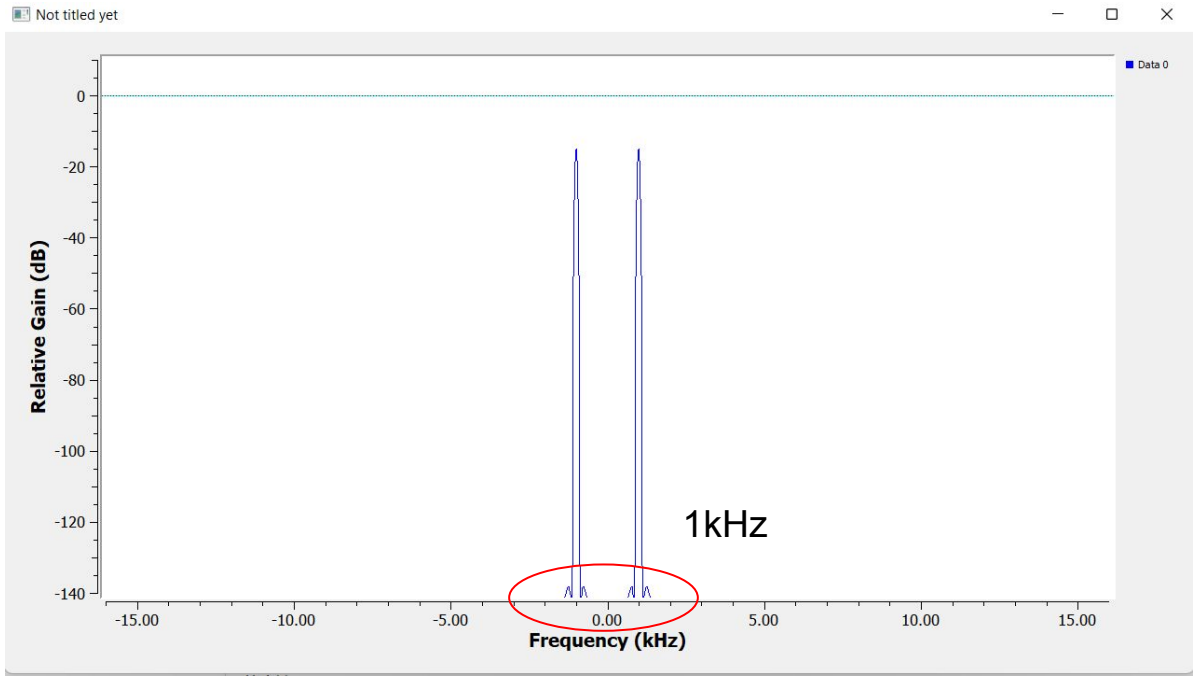
Configurações do plot



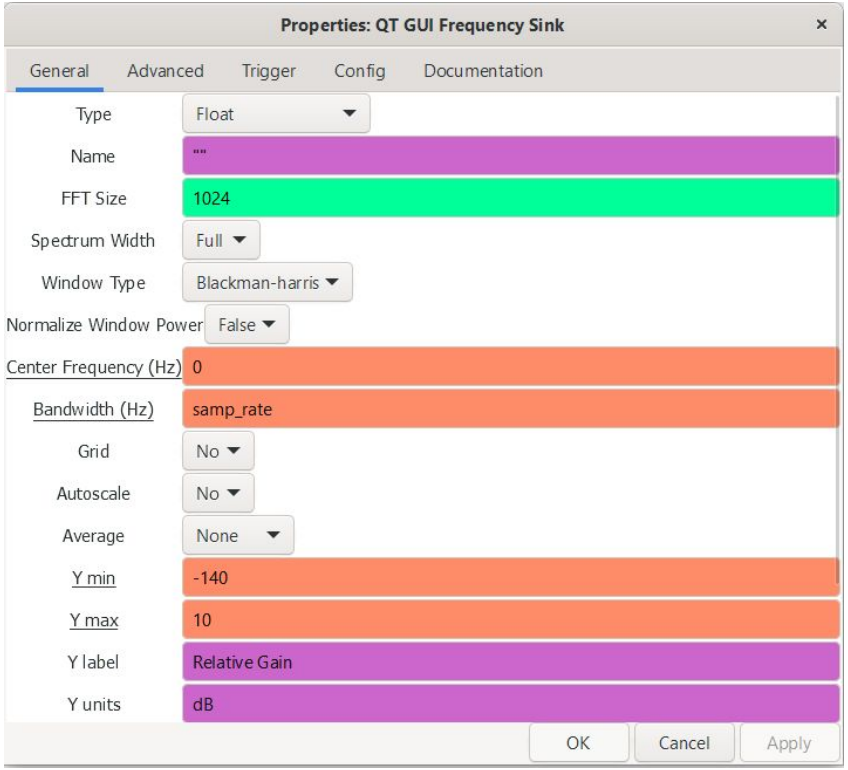
Espectro de Frequência



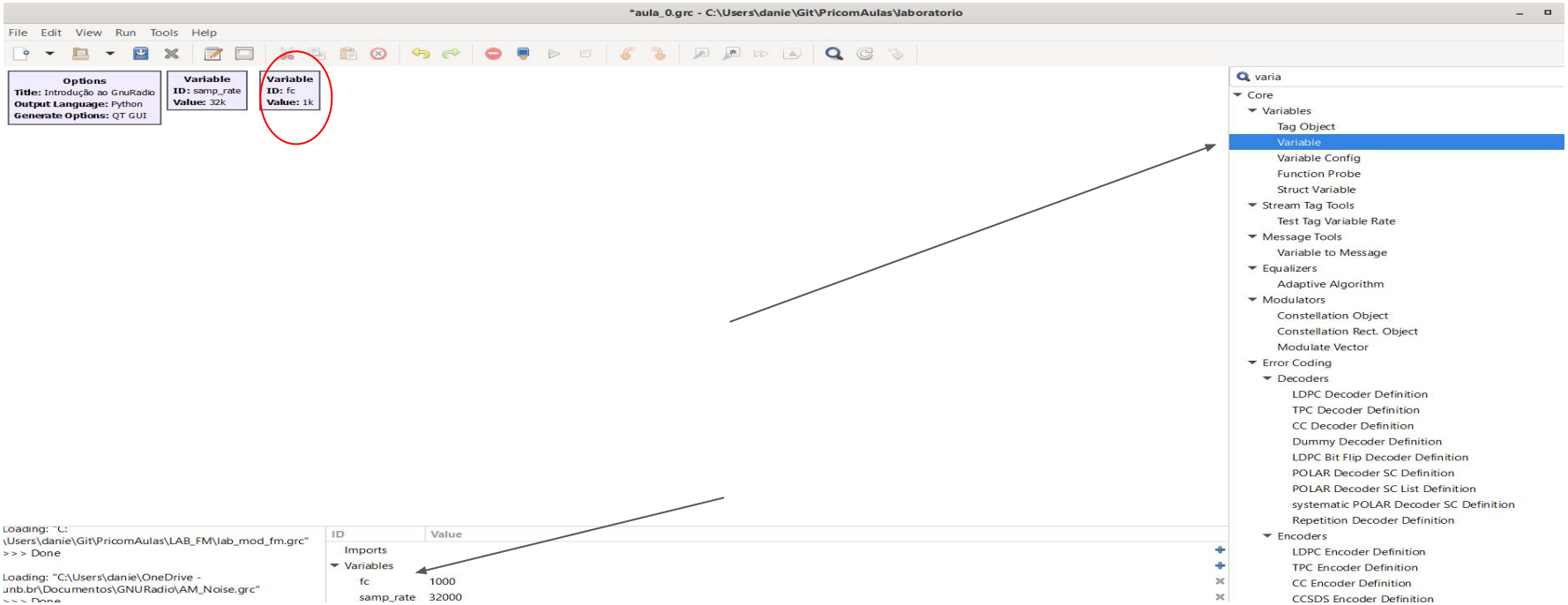
Resultado


Not titled yet
Data 0
0
-20
-40
-60
-80
-100
-120
-140
Relative Gain (dB)
-15.00
-10.00
-5.00
0.00
5.00
10.00
15.00
Frequency (kHz)
1kHz

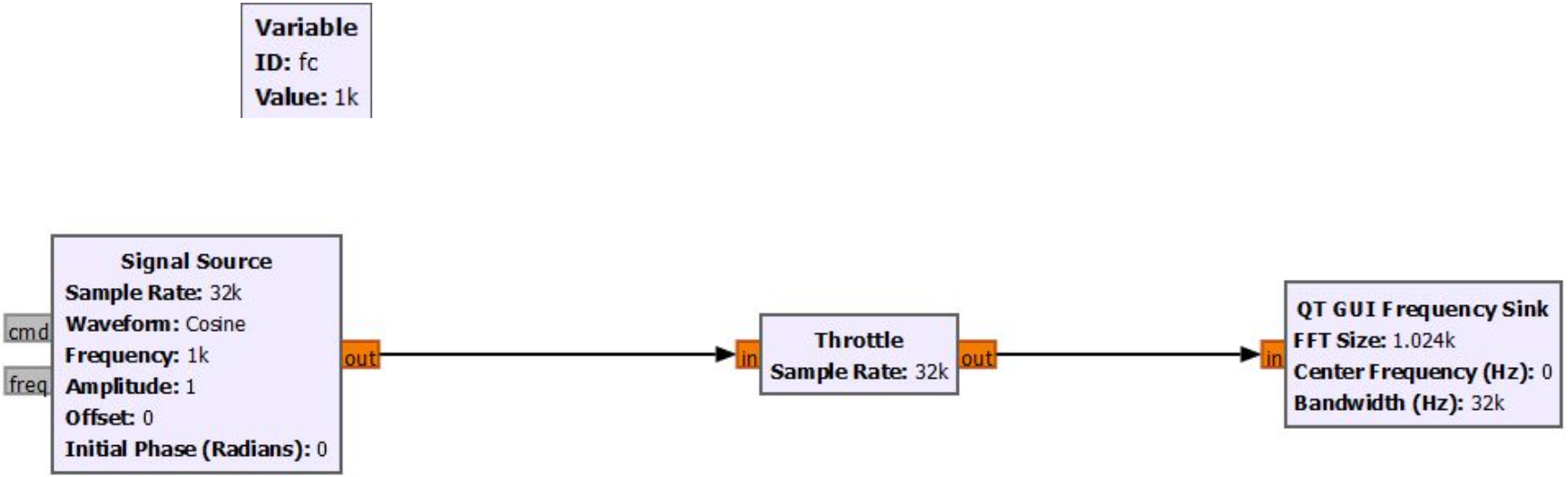
Configurações do plot



Crie variáveis



Repita o plot com a variável



Exercício:

1. Calcular a potência da portadora a uma frequência 5 KHz.
2. Plotar o espectro de frequência da portadora ao quadrado
    a. O que você observa de diferente para o espectro original?