



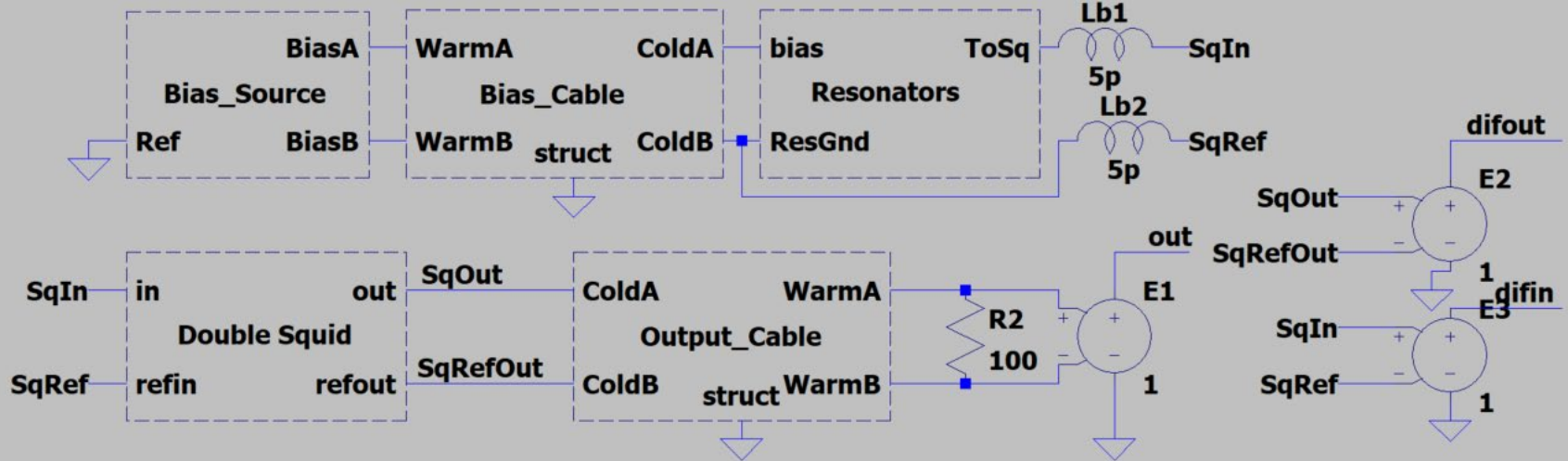
SAFARI

# **A Modified\* Simulation of FDM Readout - DoubleSQUID - Input and Output Cables as Transmission Lines**

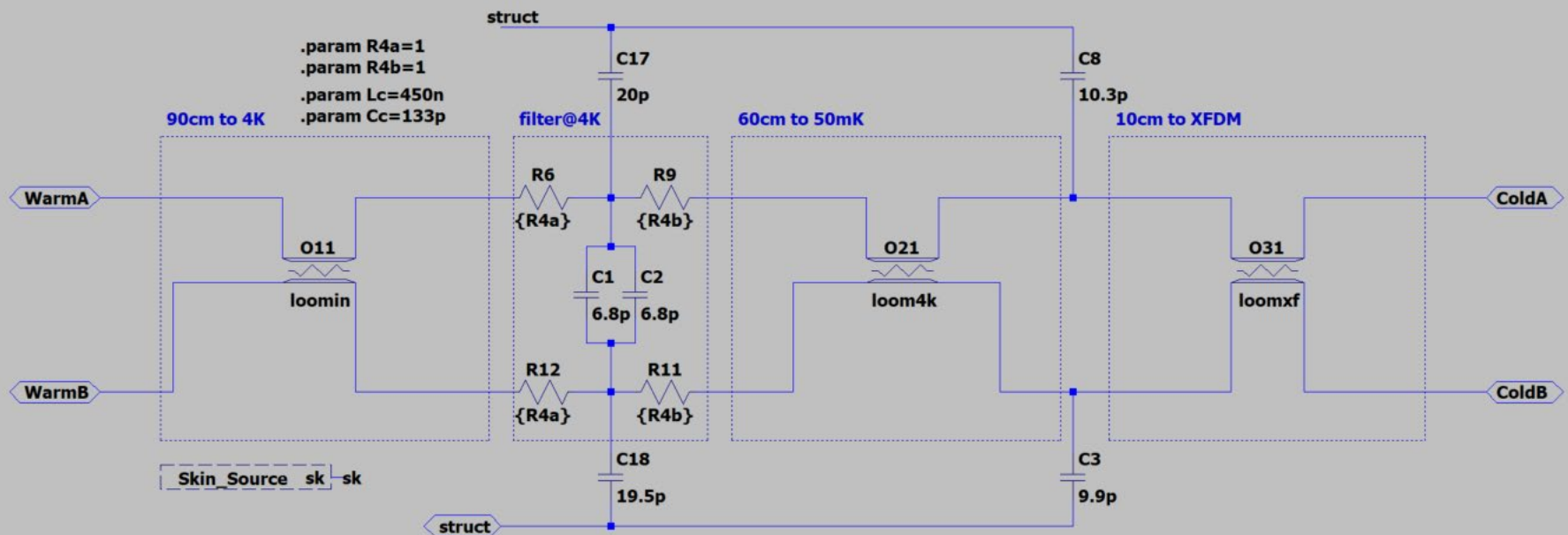
**SRON**

Amin Aminaei, 18 May 2020

\*Originally XIFU model made by Ad Nieuwenhuiz



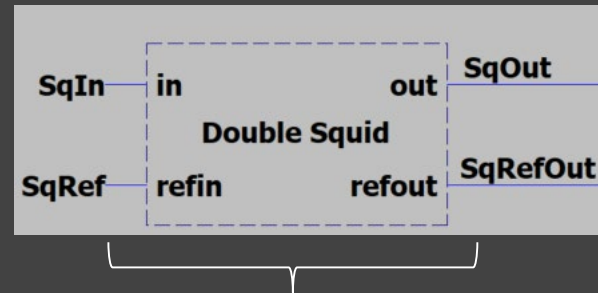
## Input/output Cables



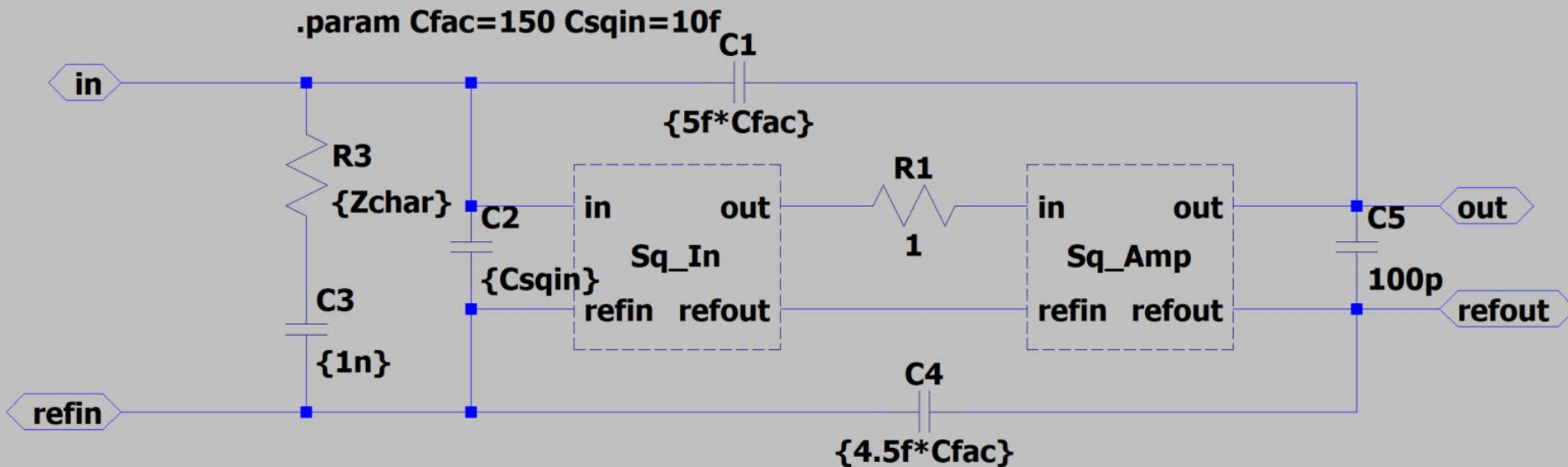


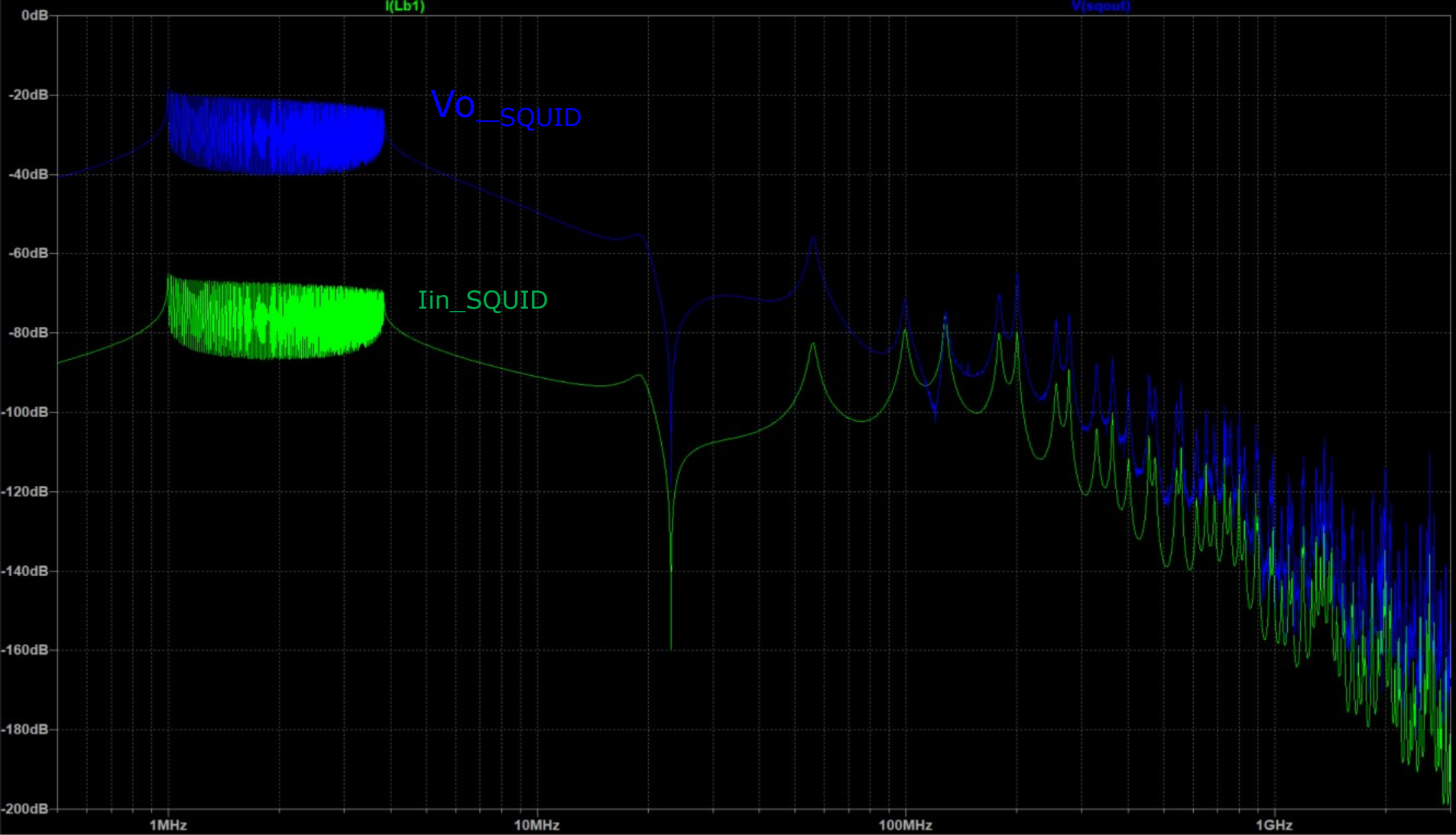
}  $R_{\text{shunt}}$

176 Resonators (L,C,TES) , Csum's , Snubbers



$R_3 = 100 \text{ Ohm}$







Loom<sub>in/out</sub>

$Z0$  ↑  
Length ↑

OBR Shifts towards  
Lower Frequencies

