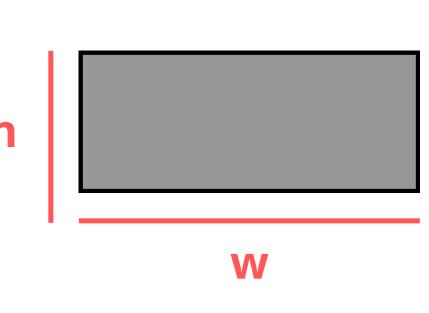
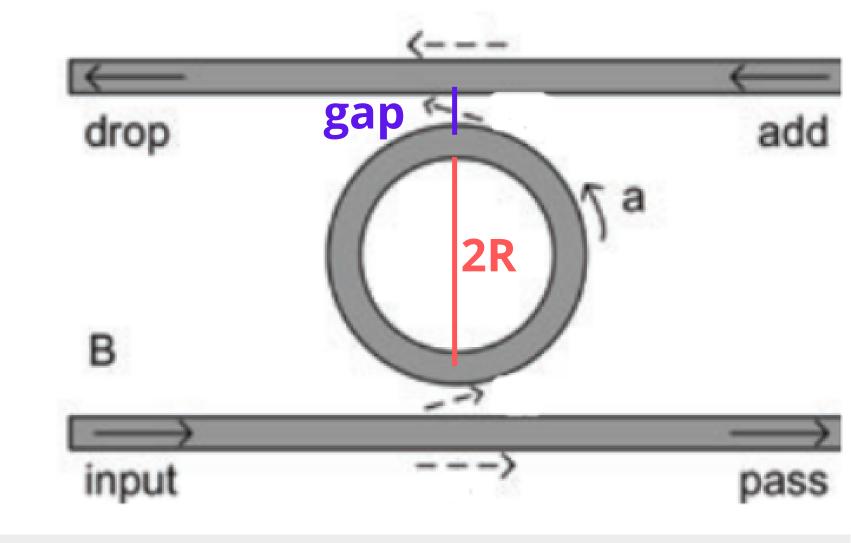
Relatório de atividade

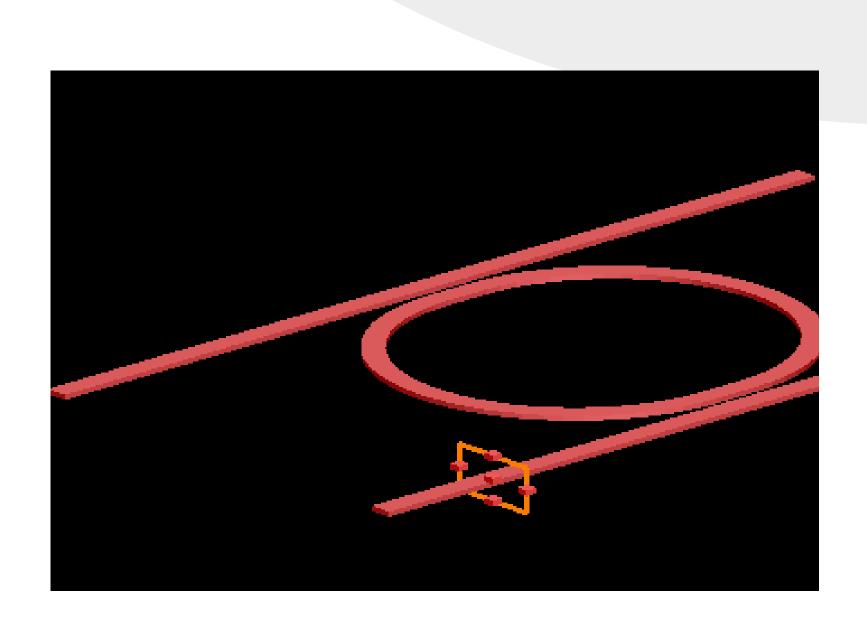
Anel de ressonância FSR = 18.5nm / FWHM = 75 GHz

Considerações iniciais:

- a = 1
- \bullet R = 3um
- h = 0.22um
- w = 0.5um
- gap = 150nm







Em 1550nm:

effective index

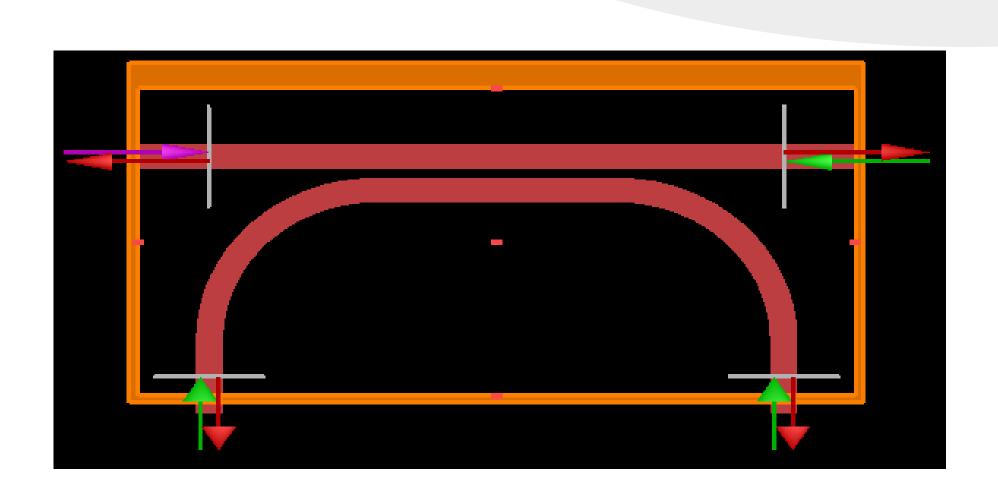
2.446284-1.007138e-08i

group index

4.210136+3.381116e-07i

Valores teóricos obtidos

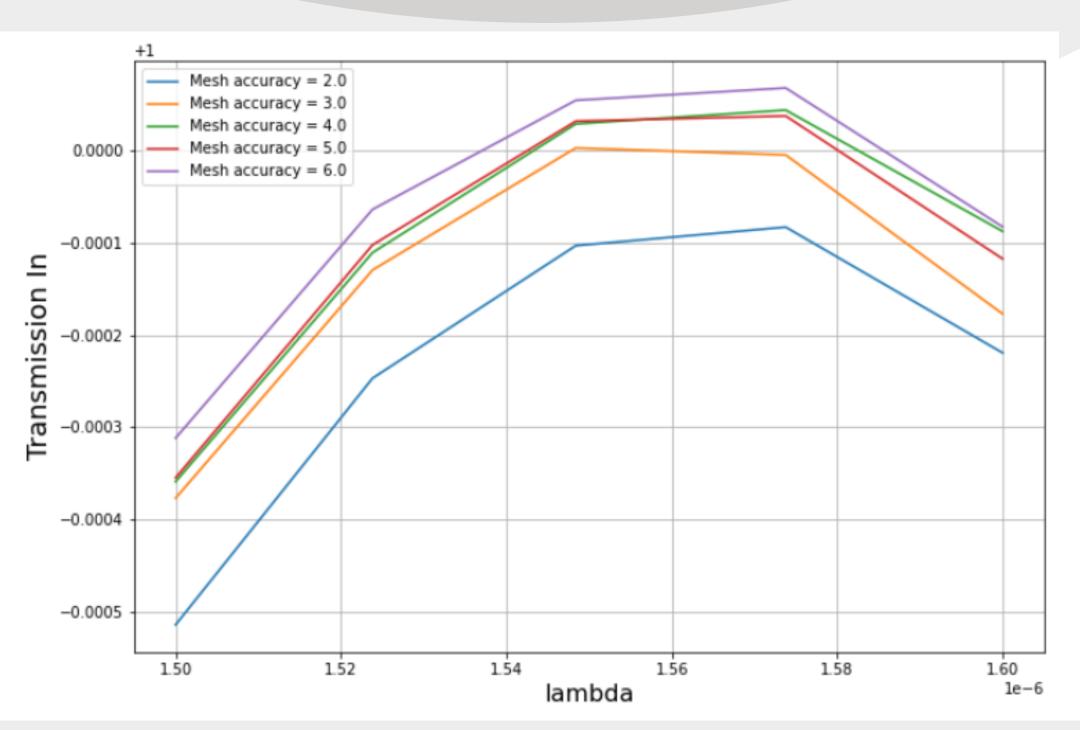
$$L = 30.5890 \ um$$
 $r^2 = 0.9001$ $k^2 = 0.09999$



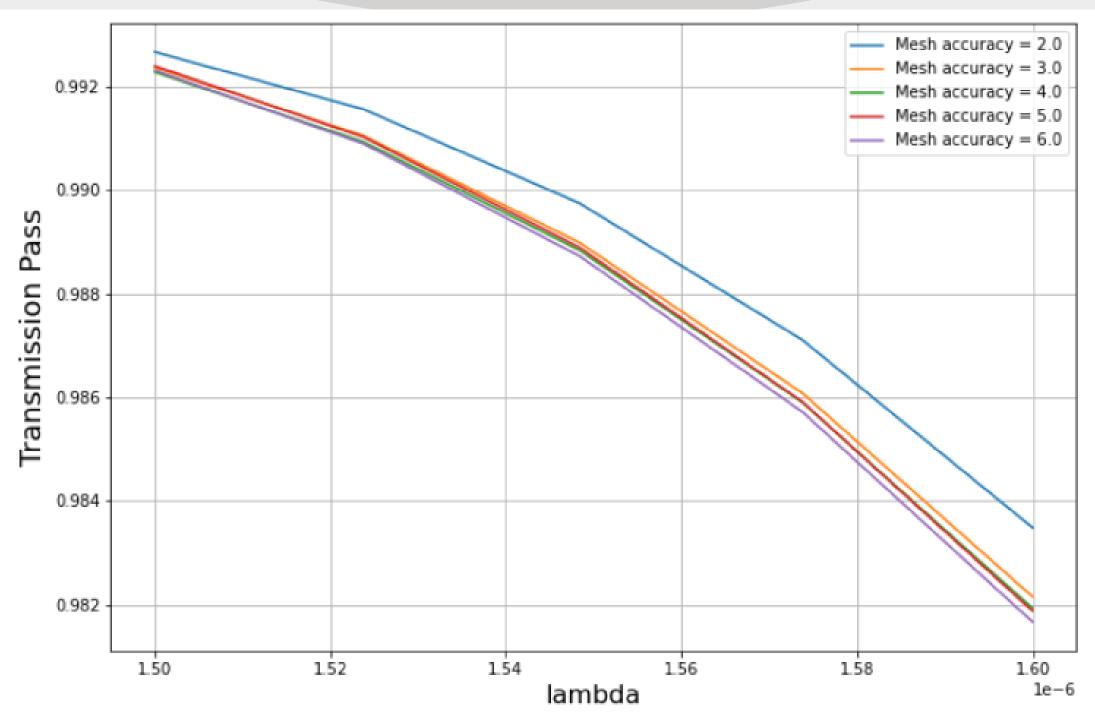
Análises realizadas:

- Mesh convergence Sweep
- Lc Sweep
- Lc and Gap Sweep

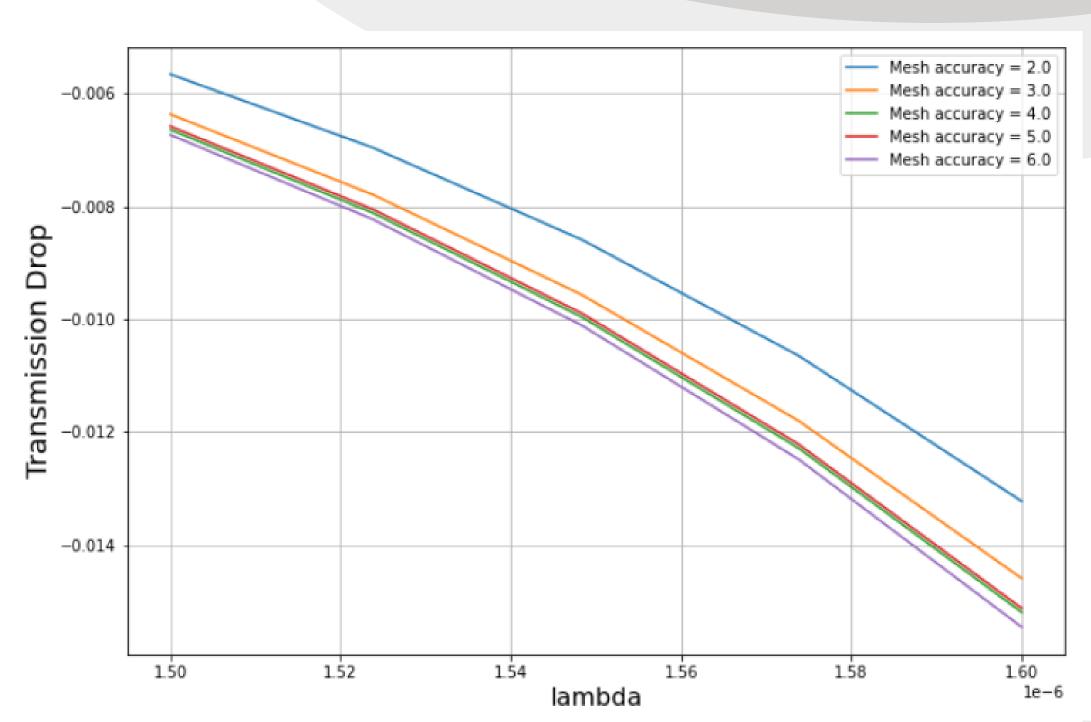
Análise de parâmetros Add-drop - Mesh Sweep



Análise de parâmetros Add-drop - Mesh Sweep



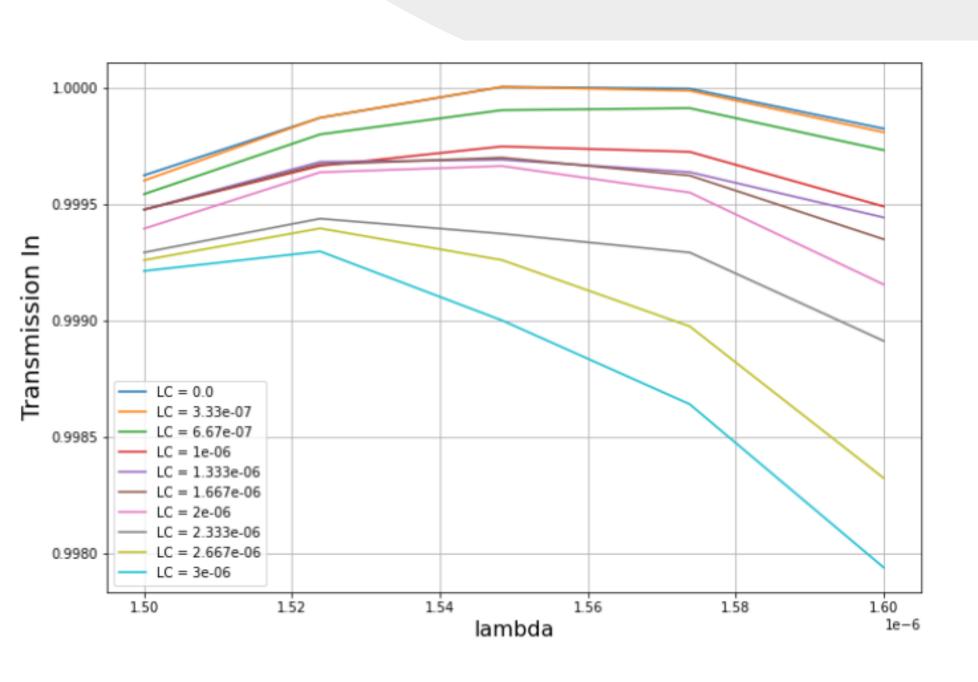
Análise de parâmetros Add-drop - Mesh Sweep

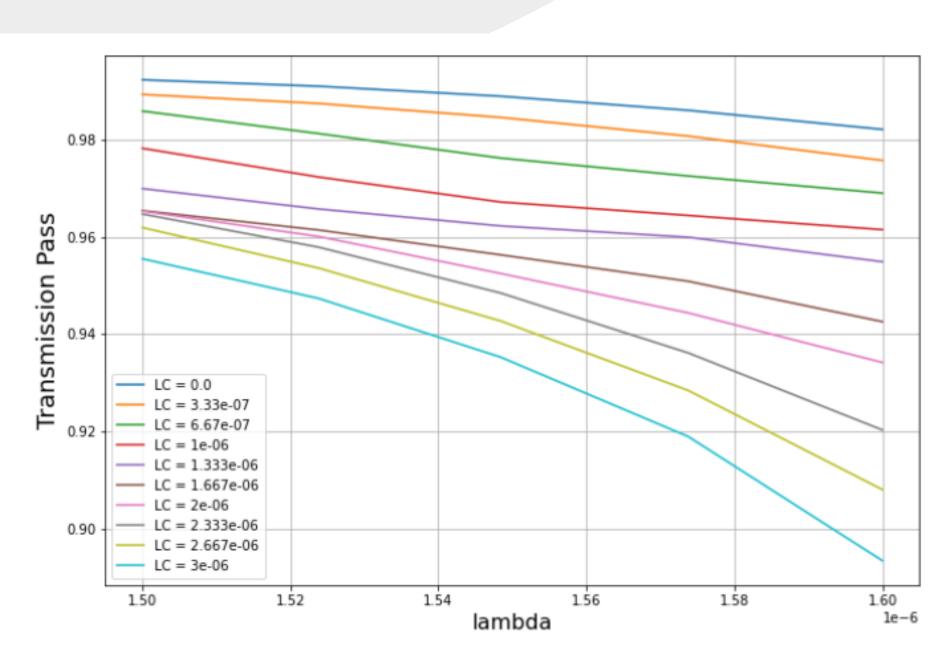


Conclusão:

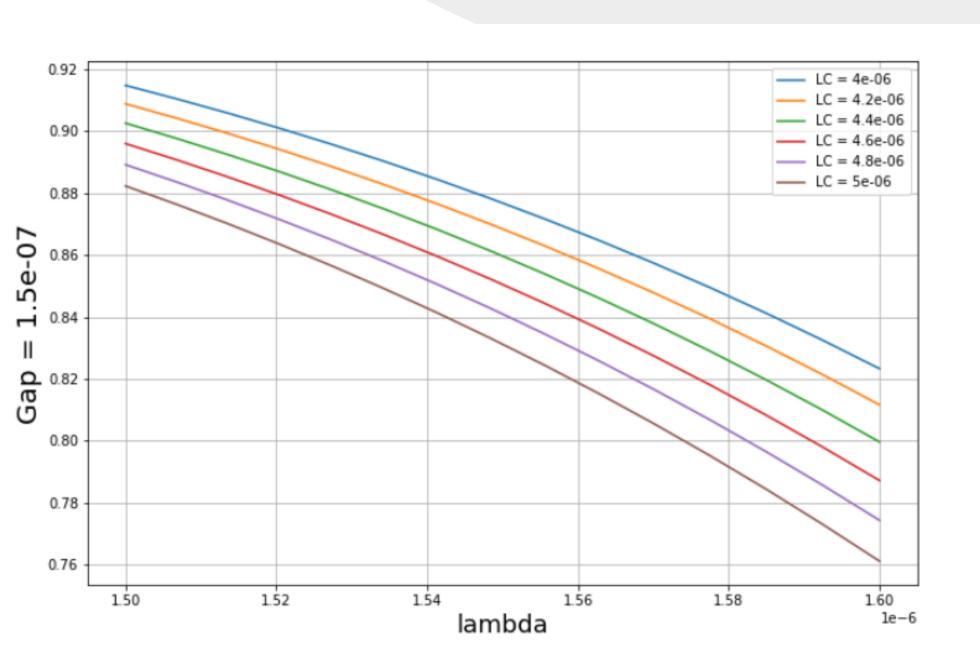
Mesh ideal = 4

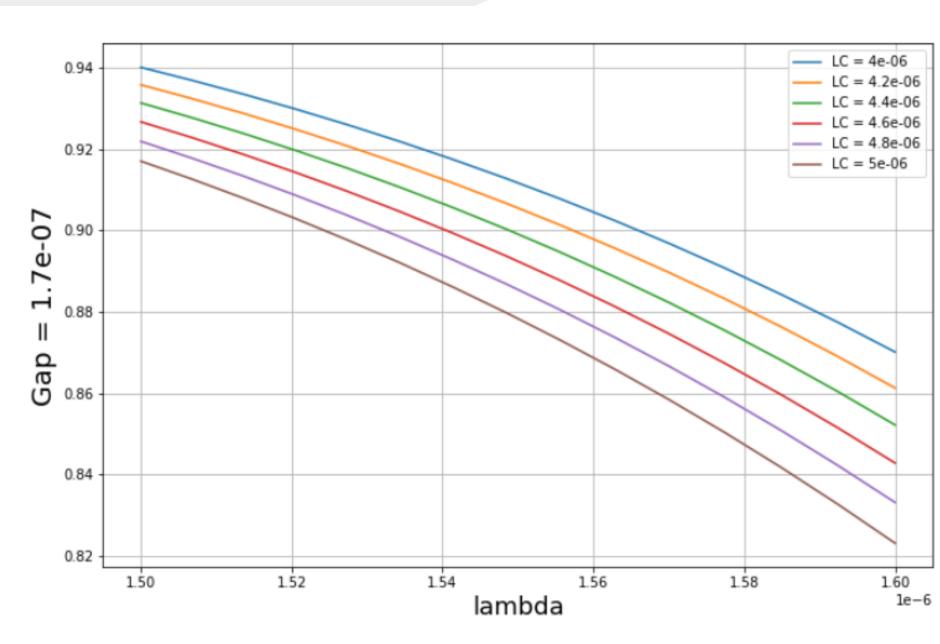
Análise de parâmetros Add-drop - LC Sweep



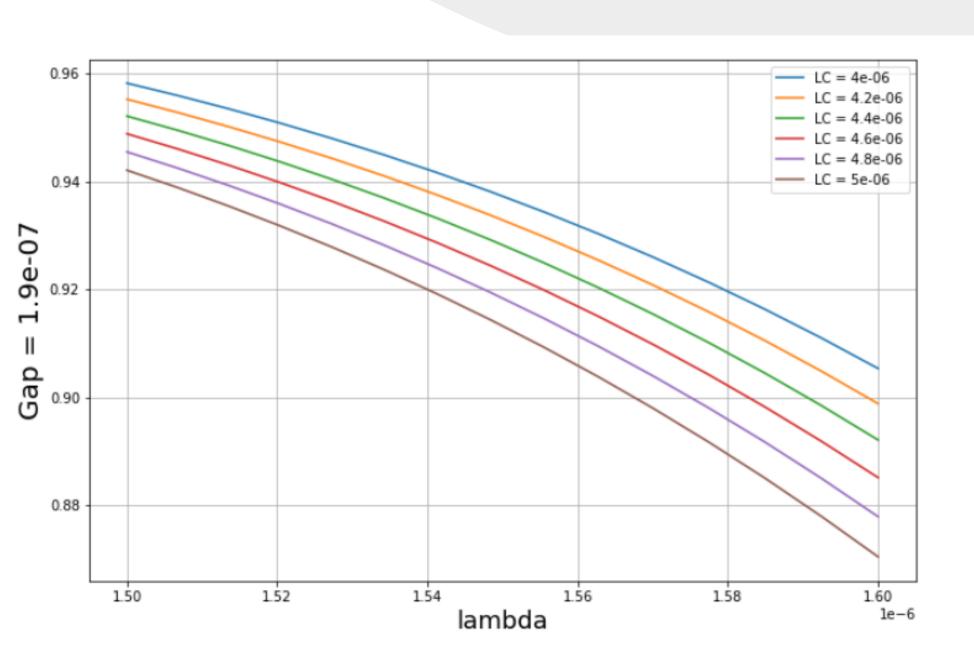


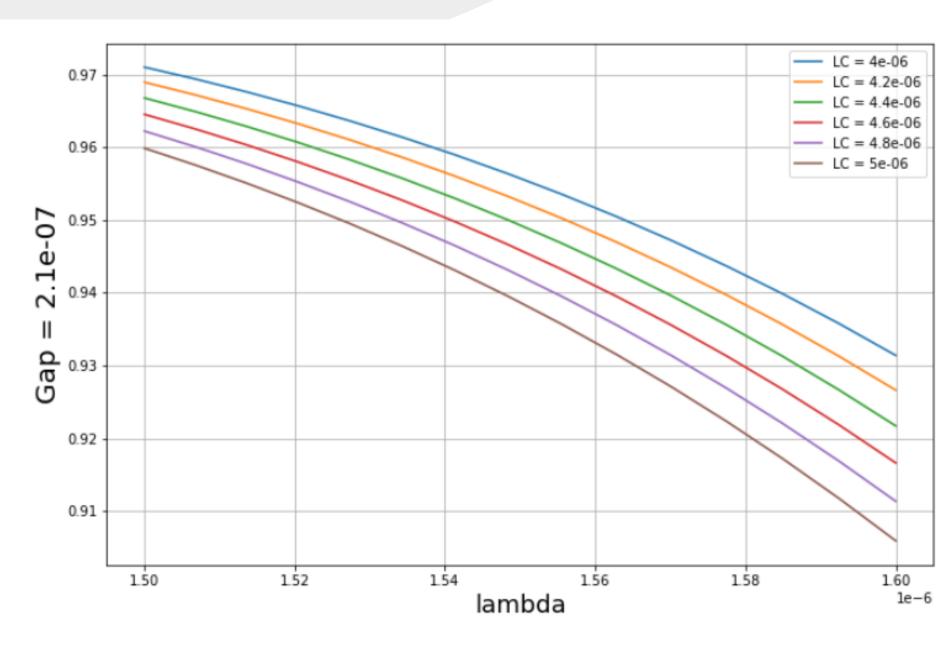
Análise de parâmetros Add-drop - LC & Gap Sweep (pass port)



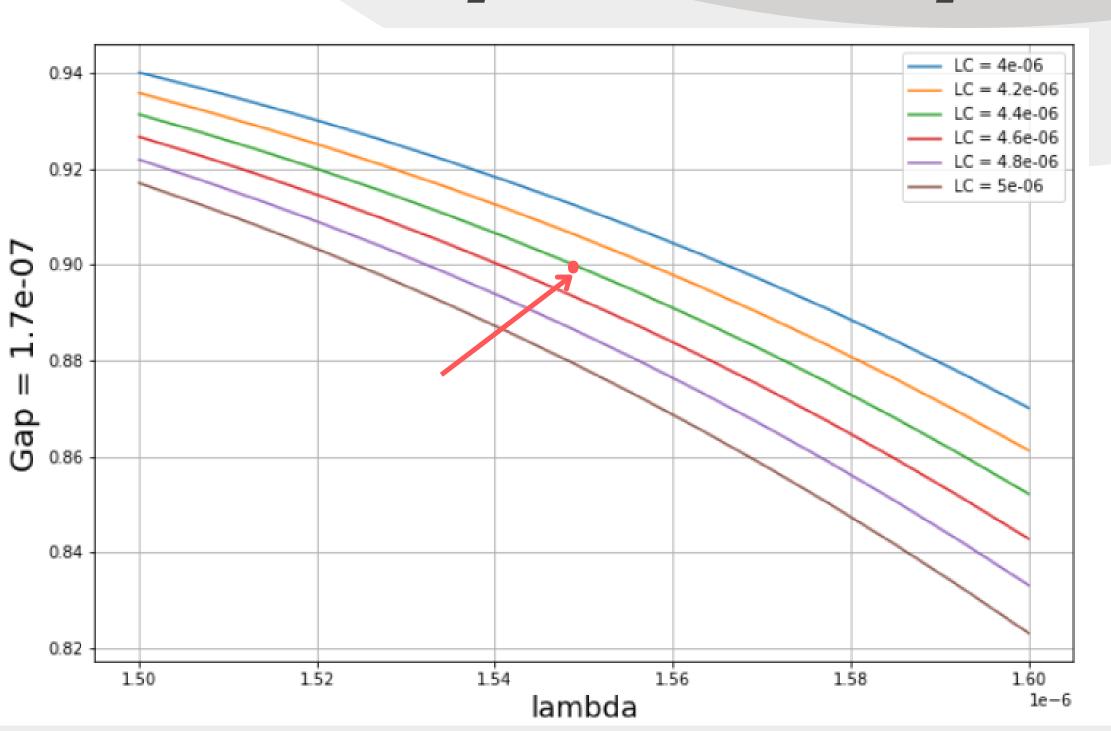


Análise de parâmetros Add-drop - LC & Gap Sweep (pass port)





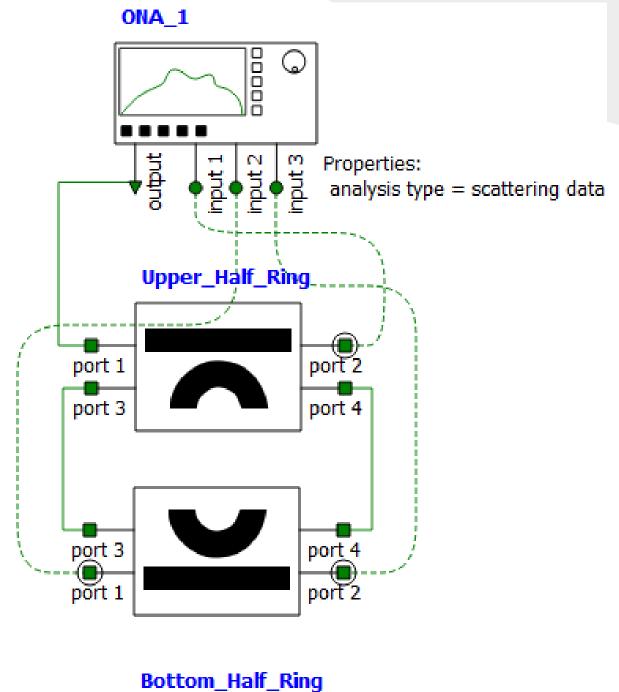
Análise de parâmetros Add-drop - LC & Gap Sweep (pass port)

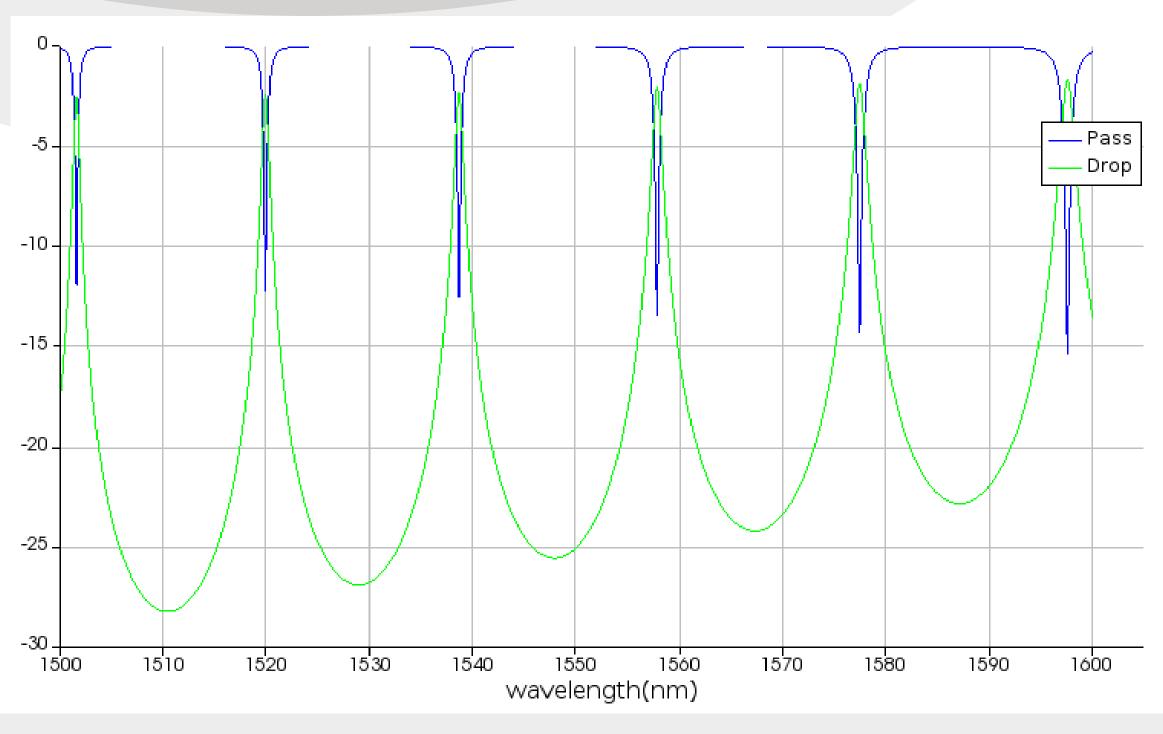


Conclusão:

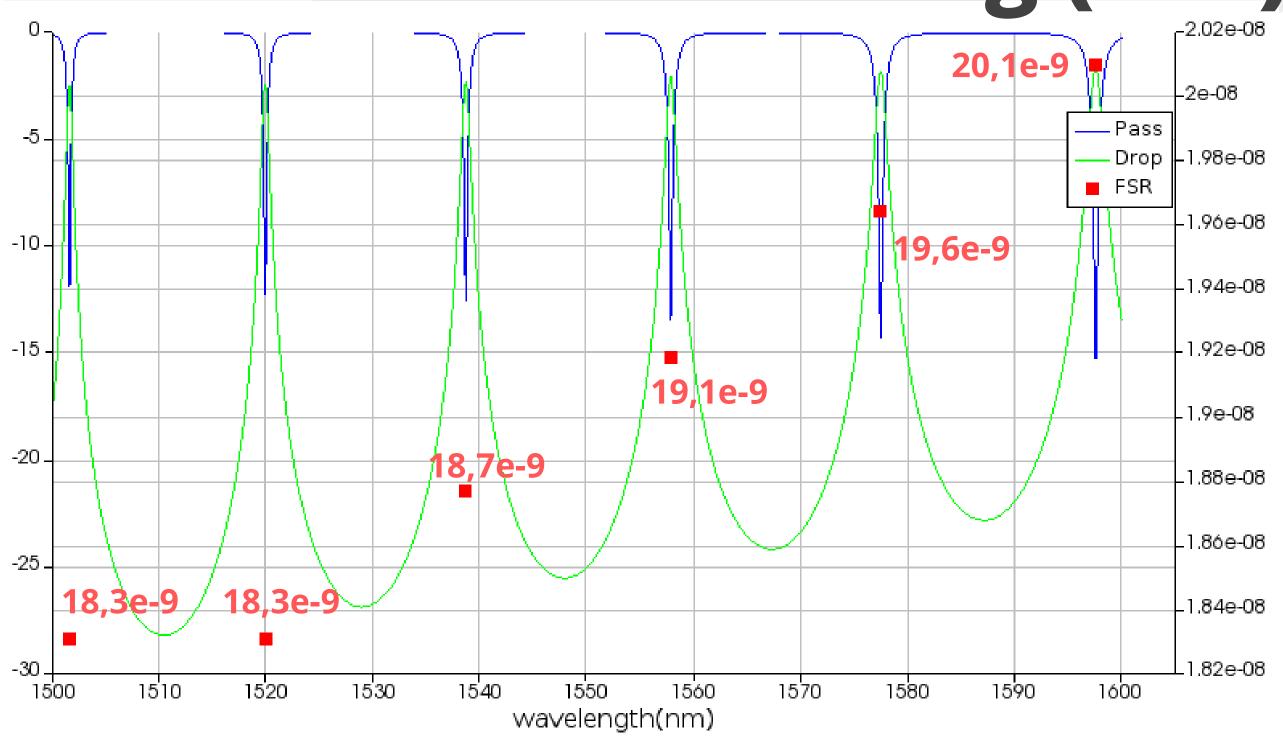
LC escolhido = 4.4um Gap escolhido = 170nm

Simulação de resultados Interconnect Full Ring

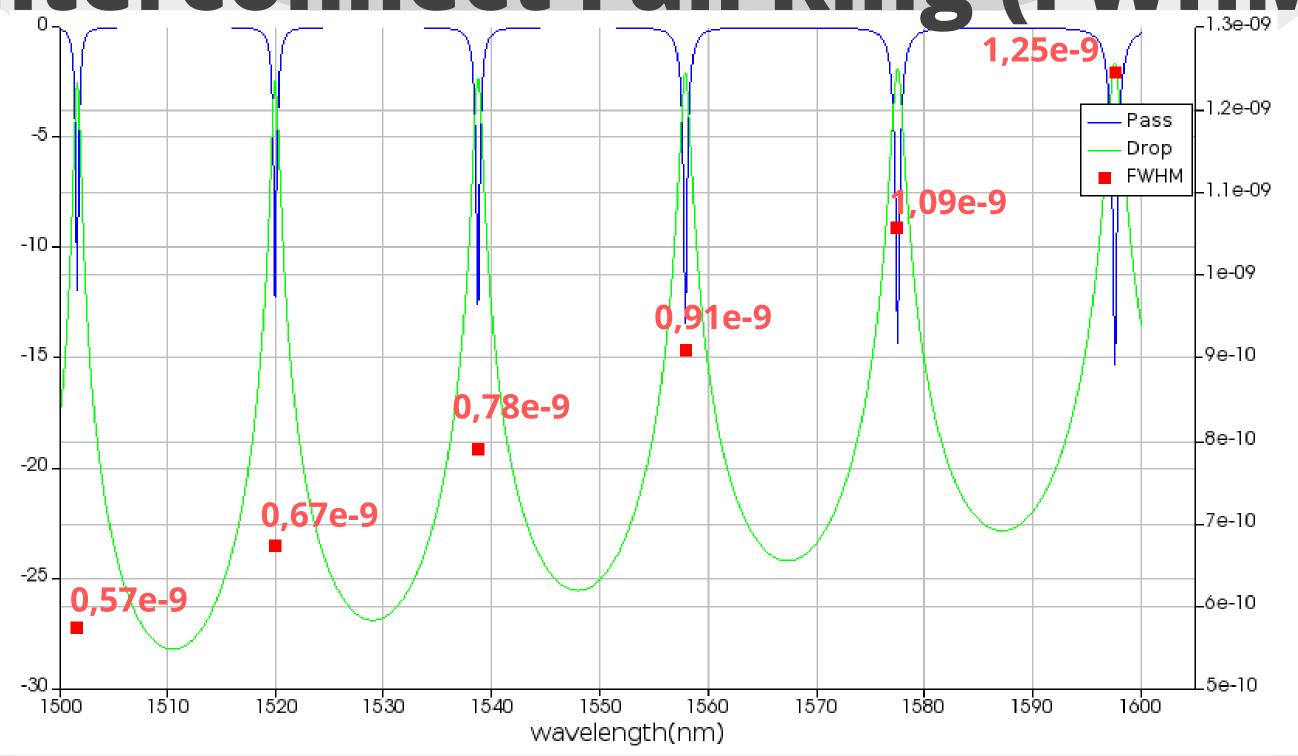




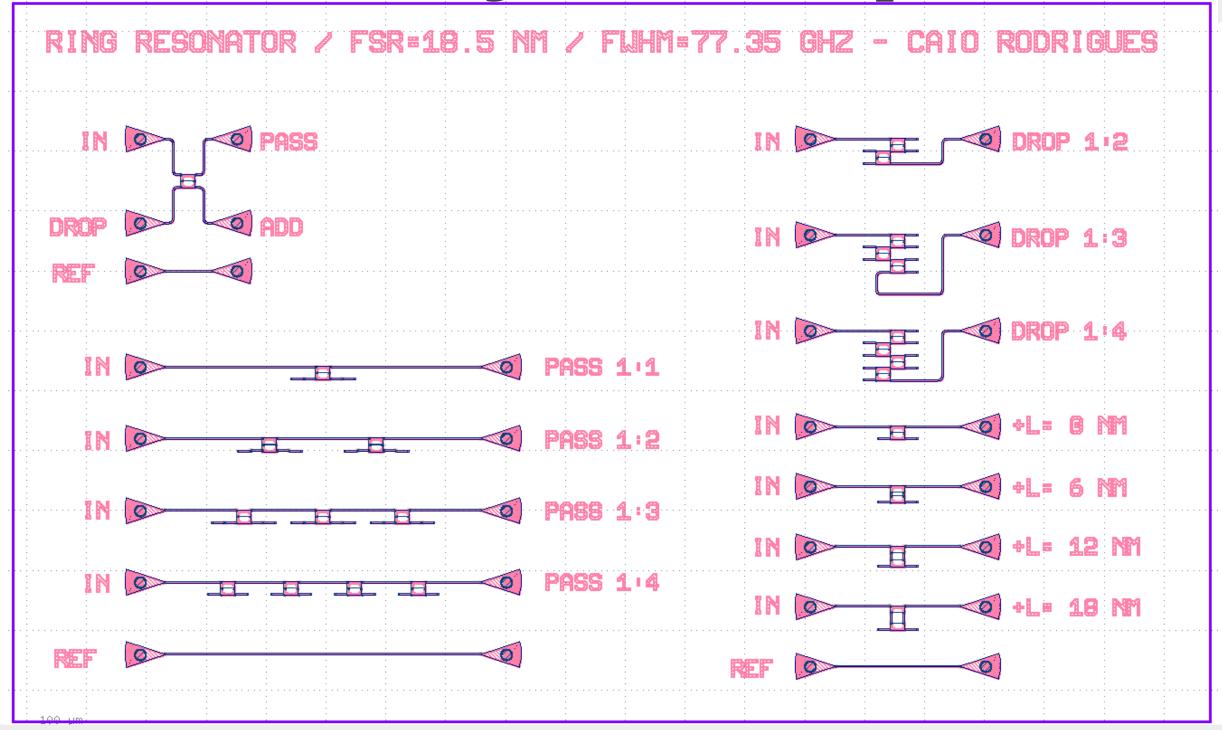
Simulação de resultados Interconnect Full Ring (FSR)



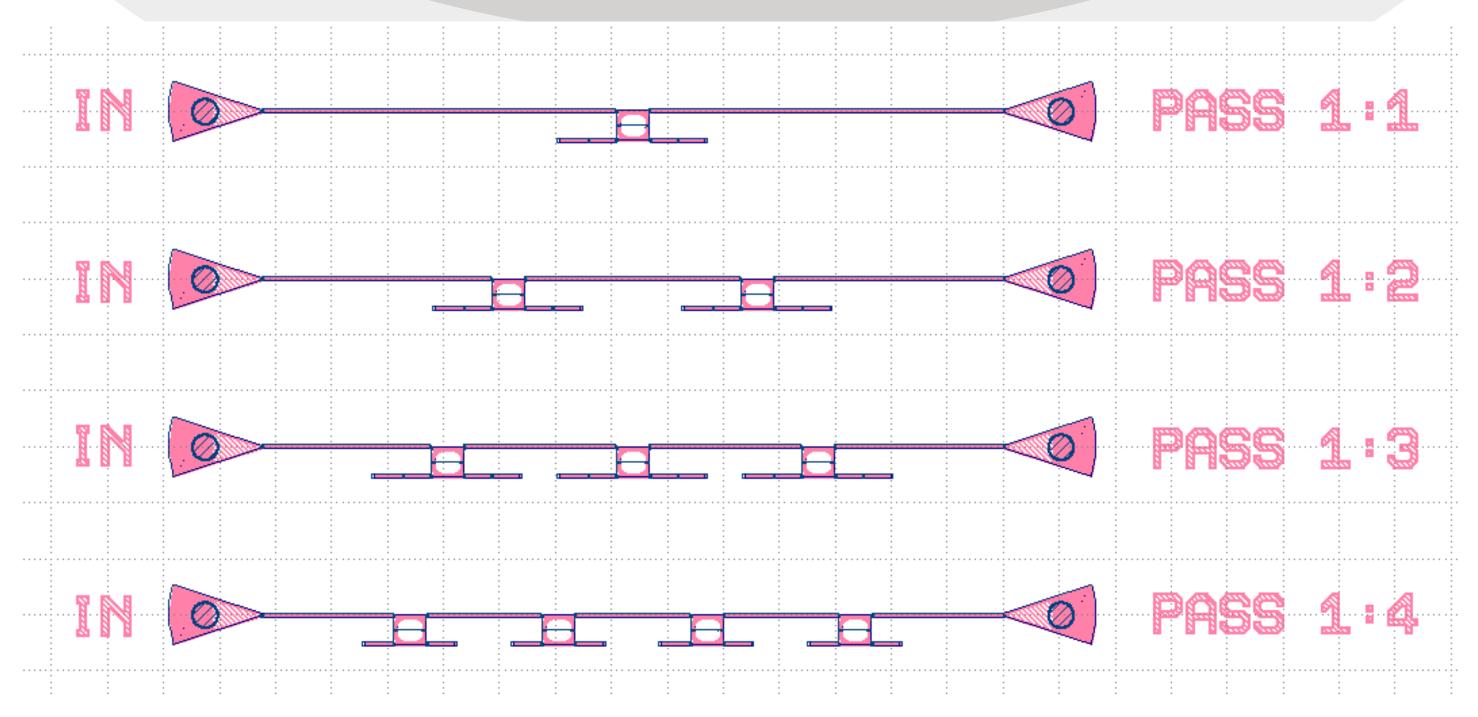
Simulação de resultados Interconnect Full Ring (FWHM)



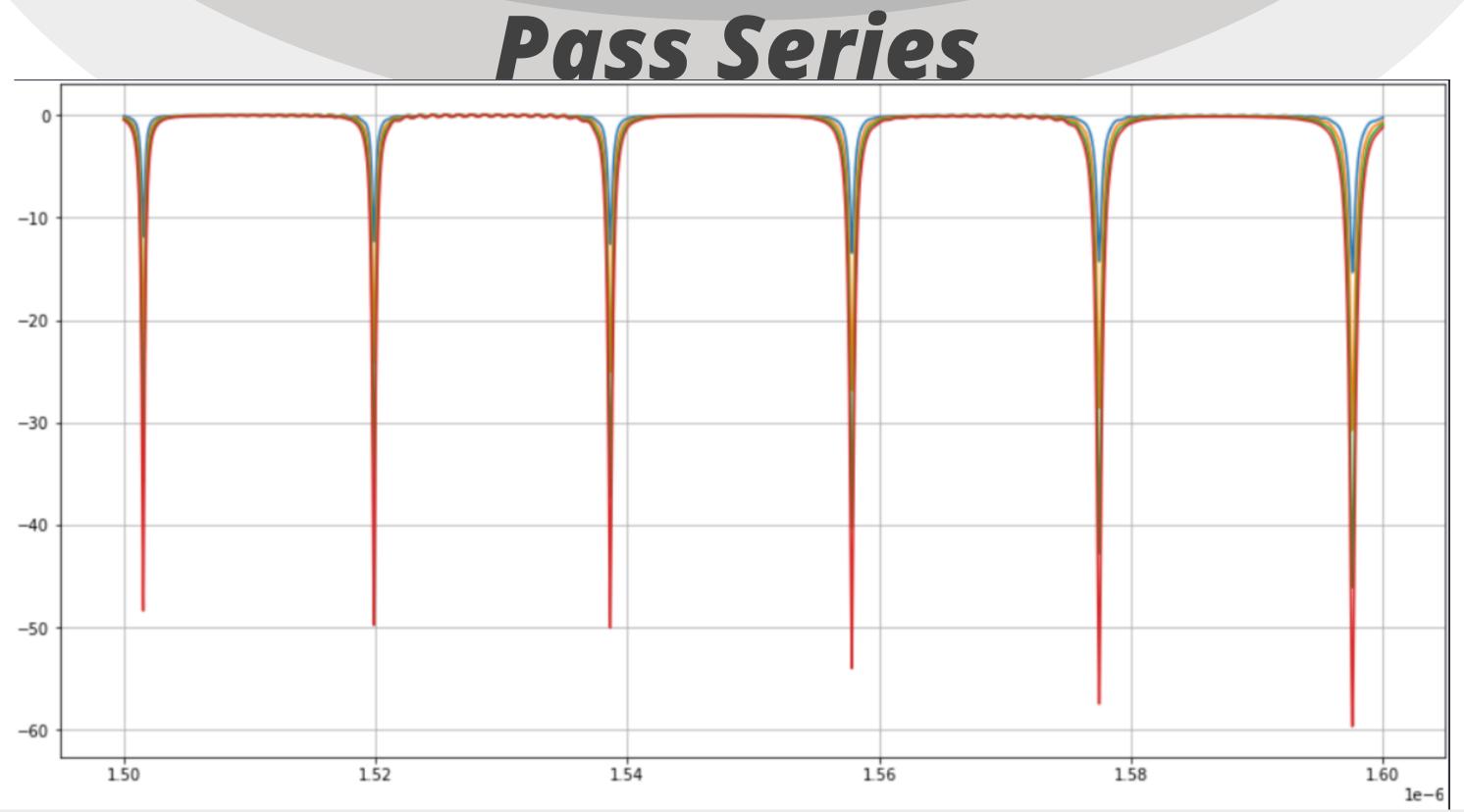
Simulação de resultados Klayout Chip



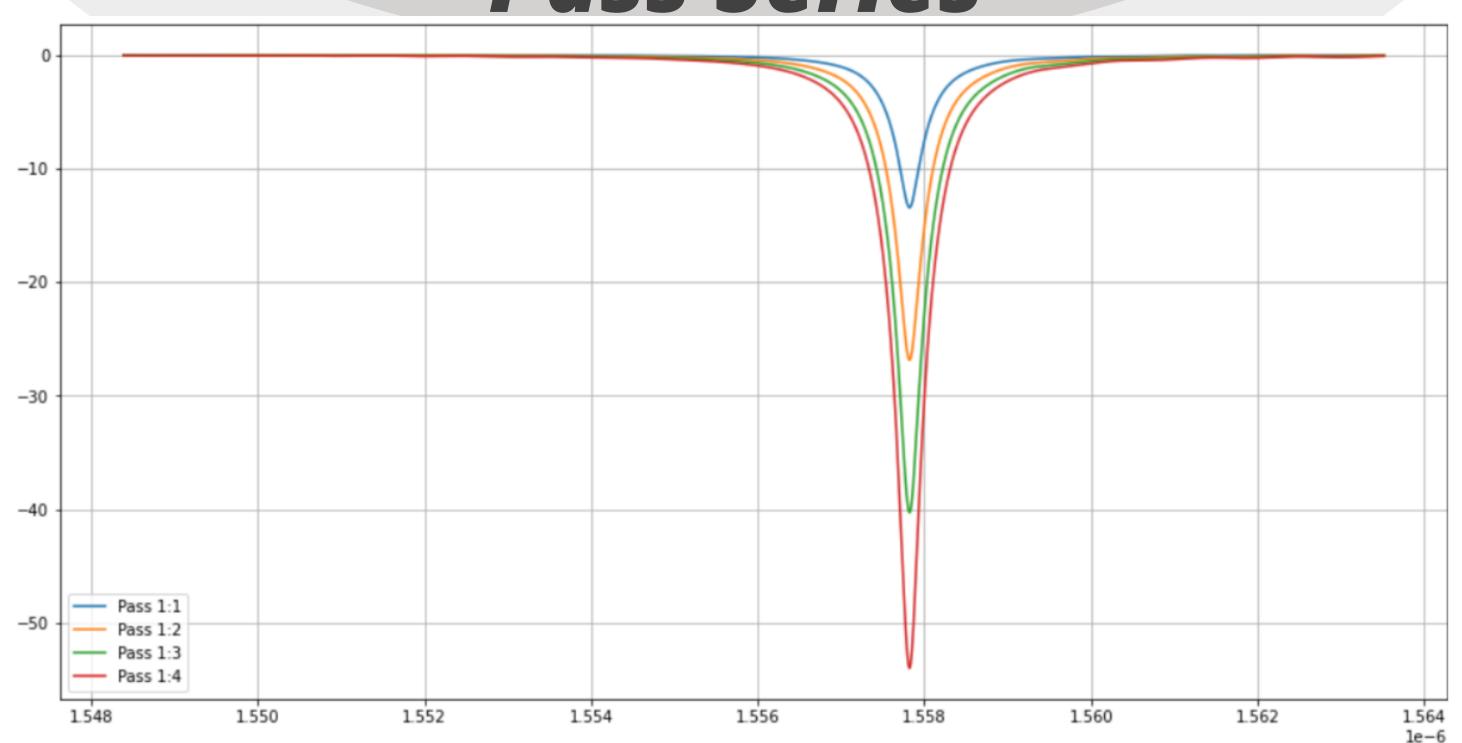
Simulação de resultados Pass Series



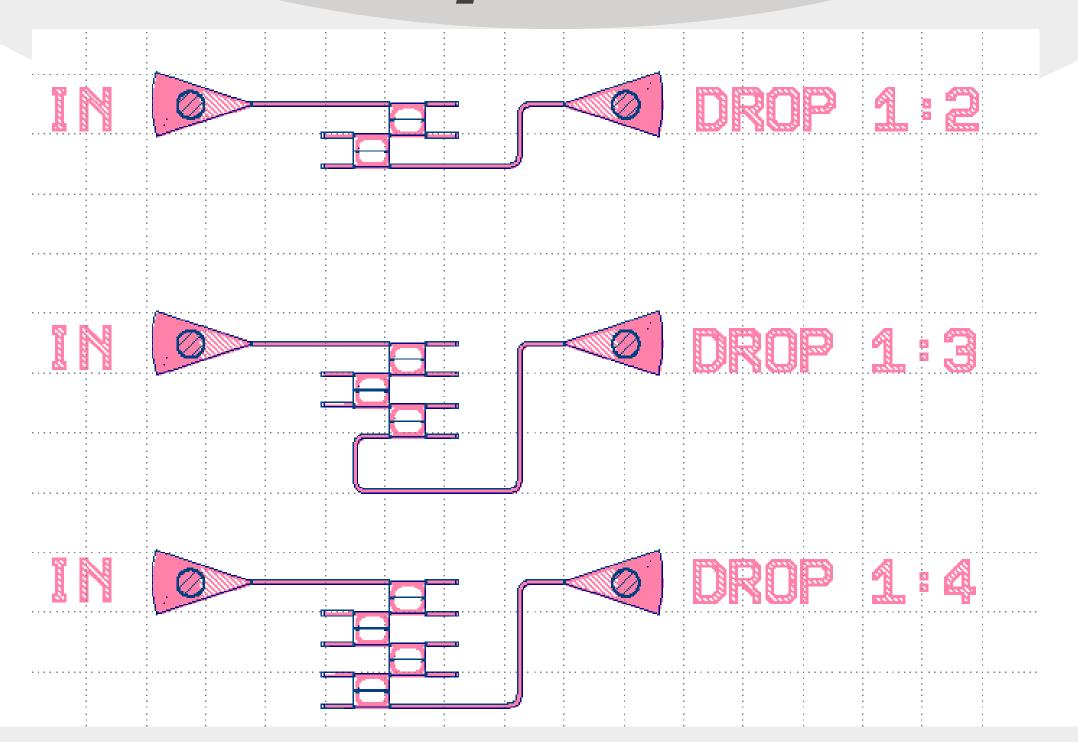
Simulação de resultados



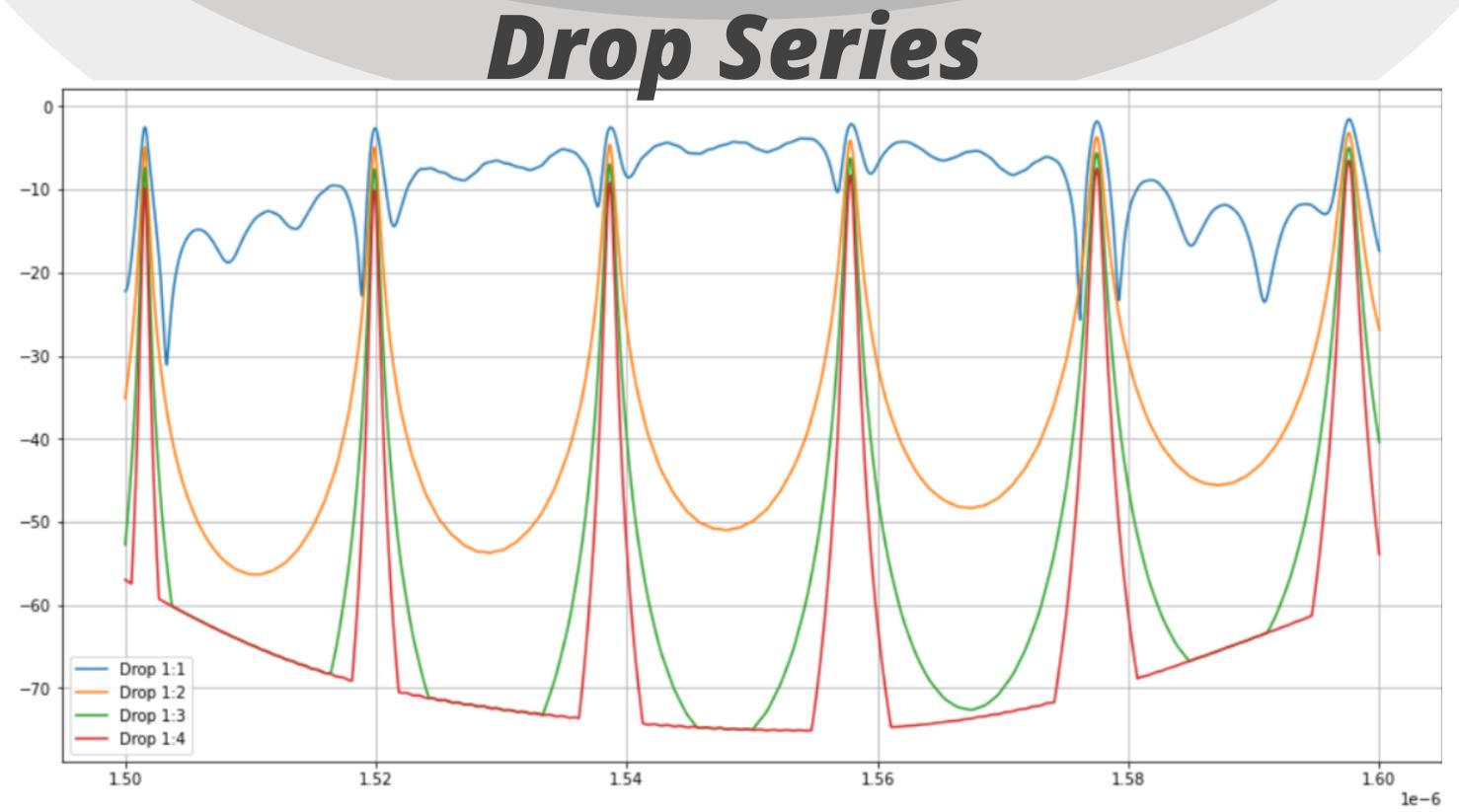
Simulação de resultados Pass Series



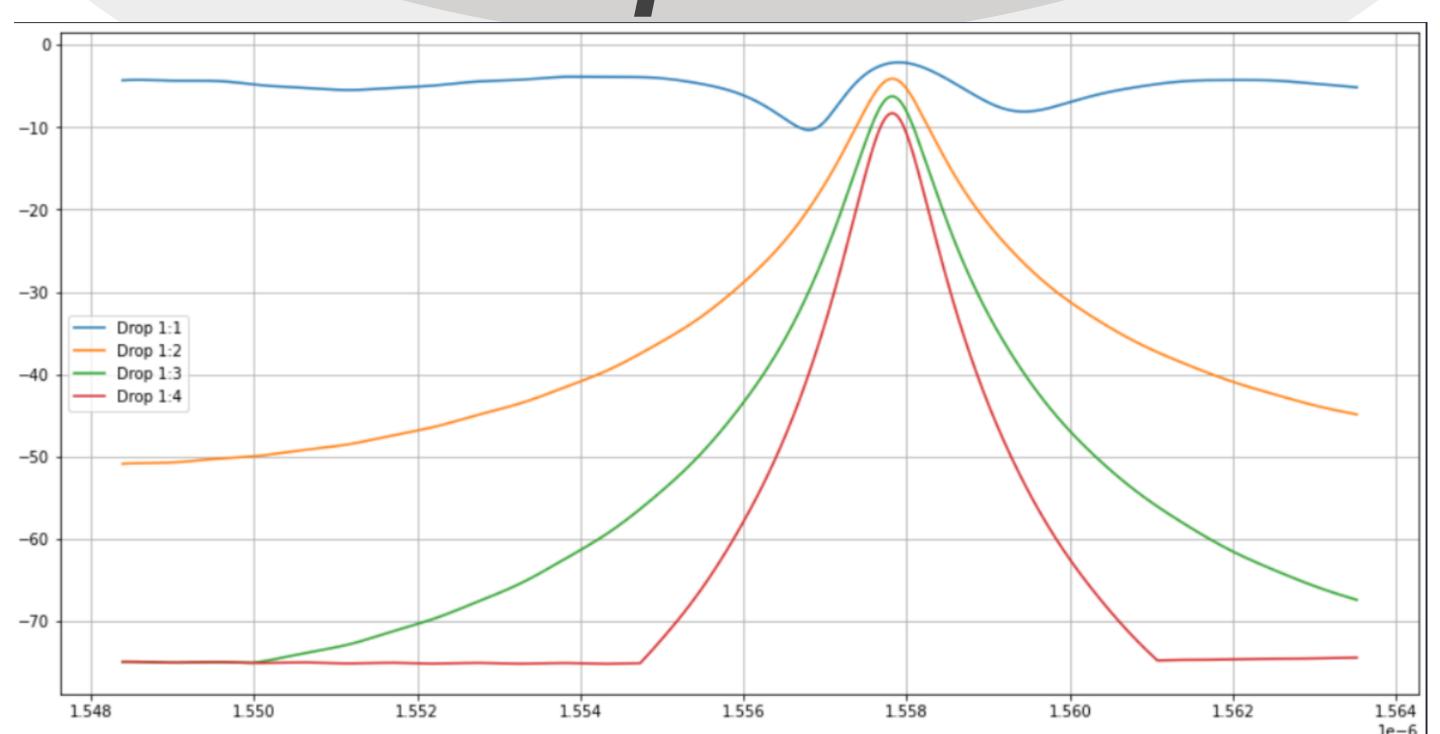
Simulação de resultados Drop Series



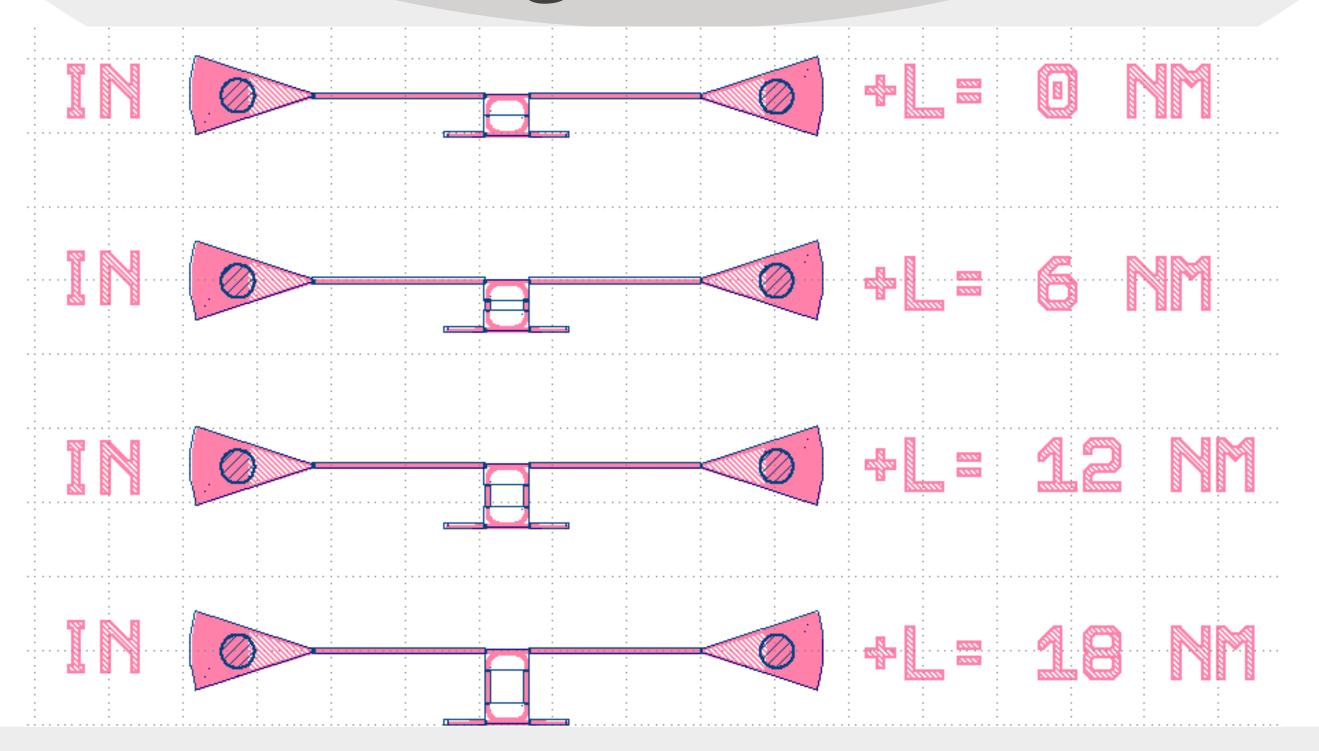
Simulação de resultados Dron Series



Simulação de resultados Drop Series



Simulação de resultados Length Series



Simulação de resultados Length Series

