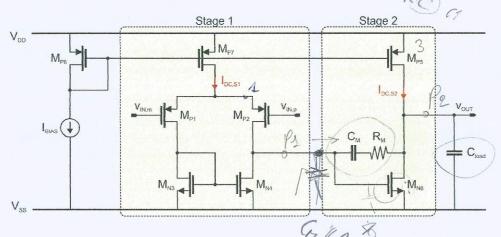
Analog Electronic Circuits – 2015-2016 Design Project Report

1. Group data

Group number	8
Name – Student 1	Nathan Dwek
Name – Student 2	Garthier Duchene
Name – Student 3	Sacho Maca

2. Circuit Schematic



3. Performance summary

Metric	Units	Specification	Matlab	Spectre	
C _{load}	pF	50			
DC gain	dB	48			
f _{GBW}	MHz	70			
Phase margin	0	760			
Output swing	V	70.8			
Dominant pole	kHz				
Input common mode range	V				
Current consumption (I _{DC,S1} + I _{DC,S2})	Α				
FoM (f _{GBW} .C _{load} /(I _{DC,S1} + I _{DC,S2}))	MHz.pF/mA	Maximize			

4. Device sizes and bias point parameters

Device	W [μm]	L [nm]	l _{ds} [μΑ]	V _{overdrive} [V]	g _m [S]	g _{ds} [S]	gm/gds [-]	V _{ds,sat} [V]	V _{ds} [V]
M _{p1}									
M_{p2}									
M _{n3}									
M _{n4}									
M _{p5}			minoralism about 1 substitution about design to						
M _{n6}									
M _{p7}									***************************************
M _{p8}									