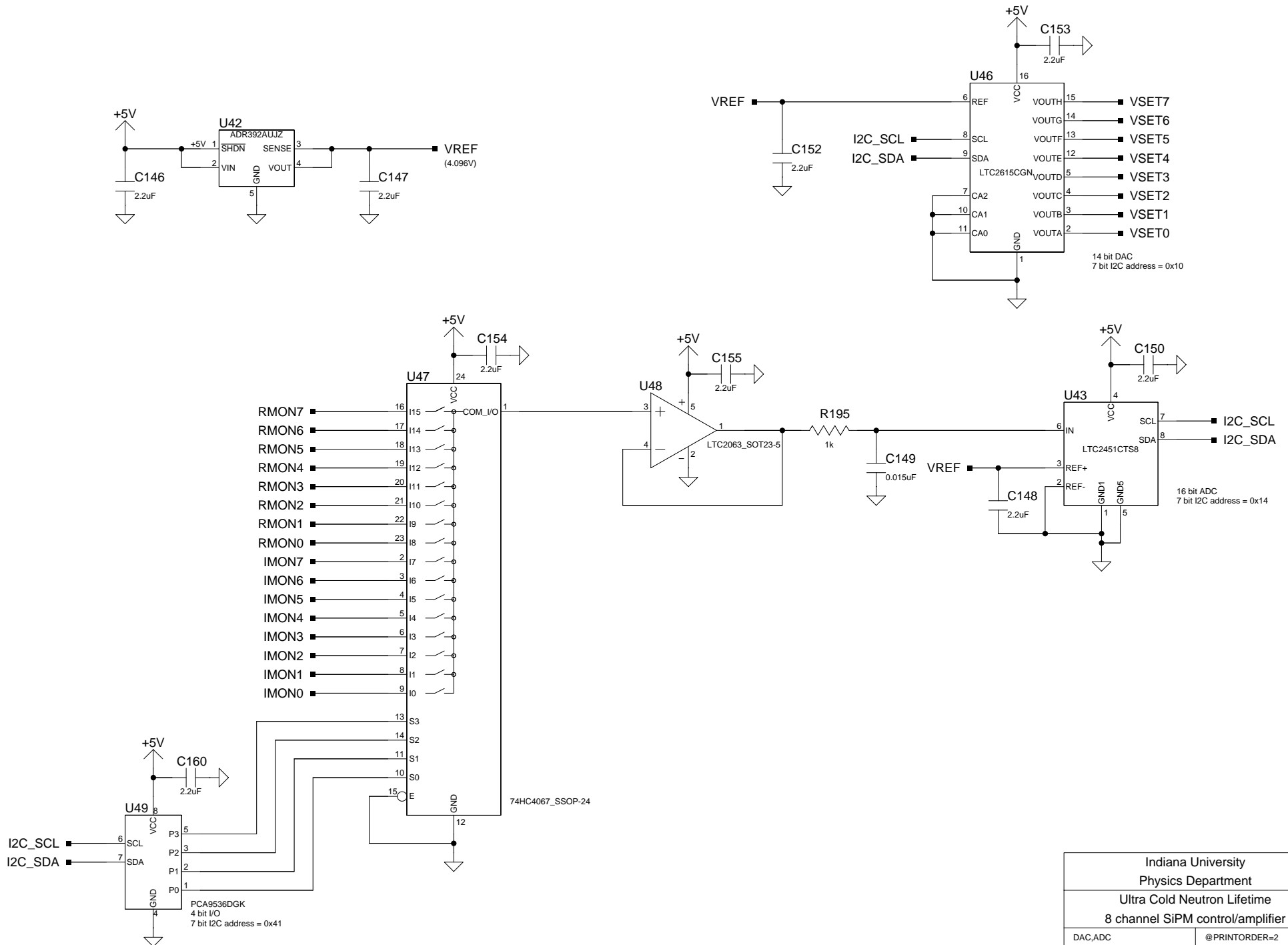
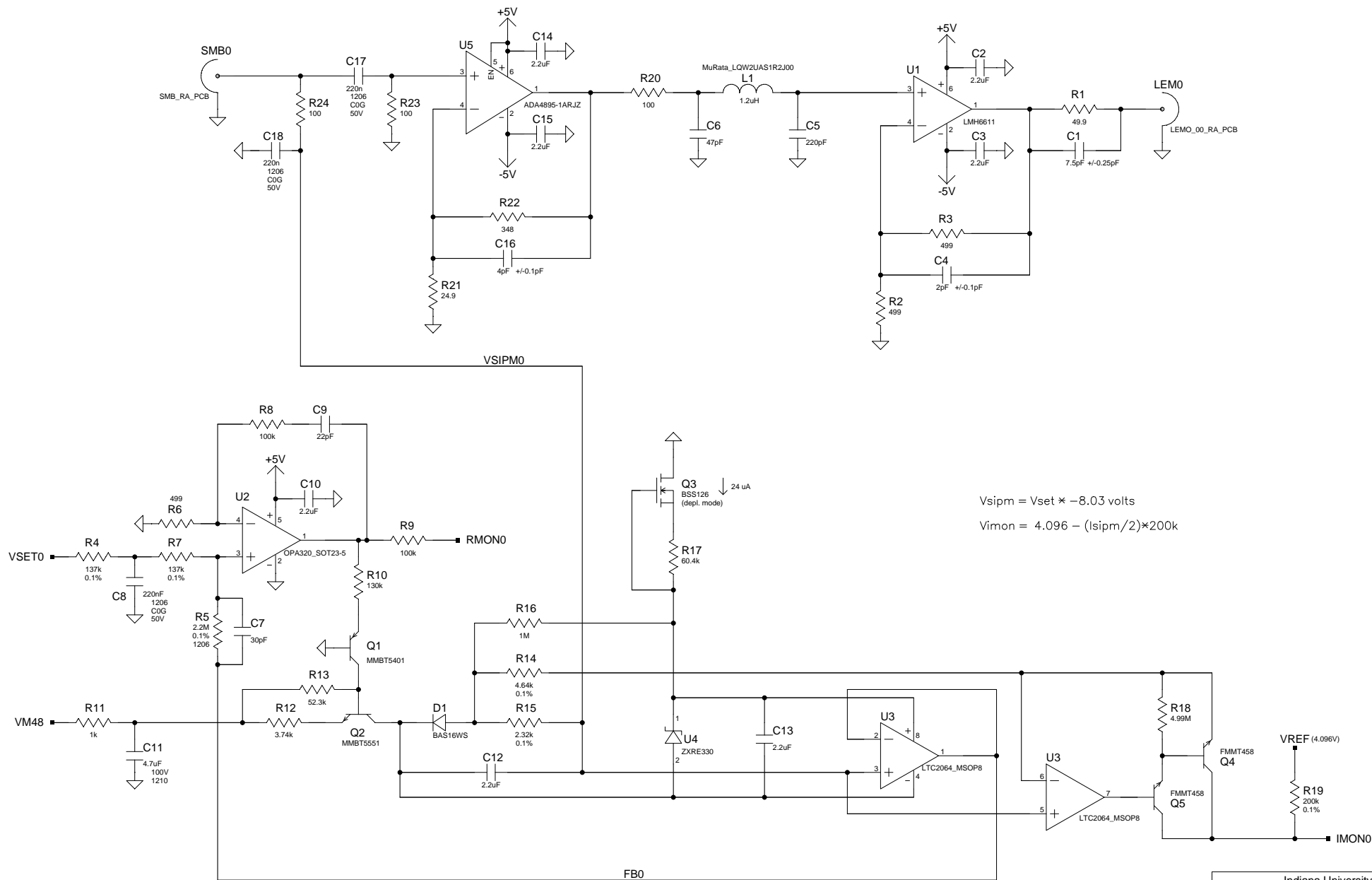


Indiana University Physics Department		
Ultra Cold Neutron Lifetime 8 channel SiPM control/amplifier		
Control Bus, Power	@PRINTORDER=1	
Paul Smith	Gerard Visser	03/22/2019
ptsmith@indiana.edu		

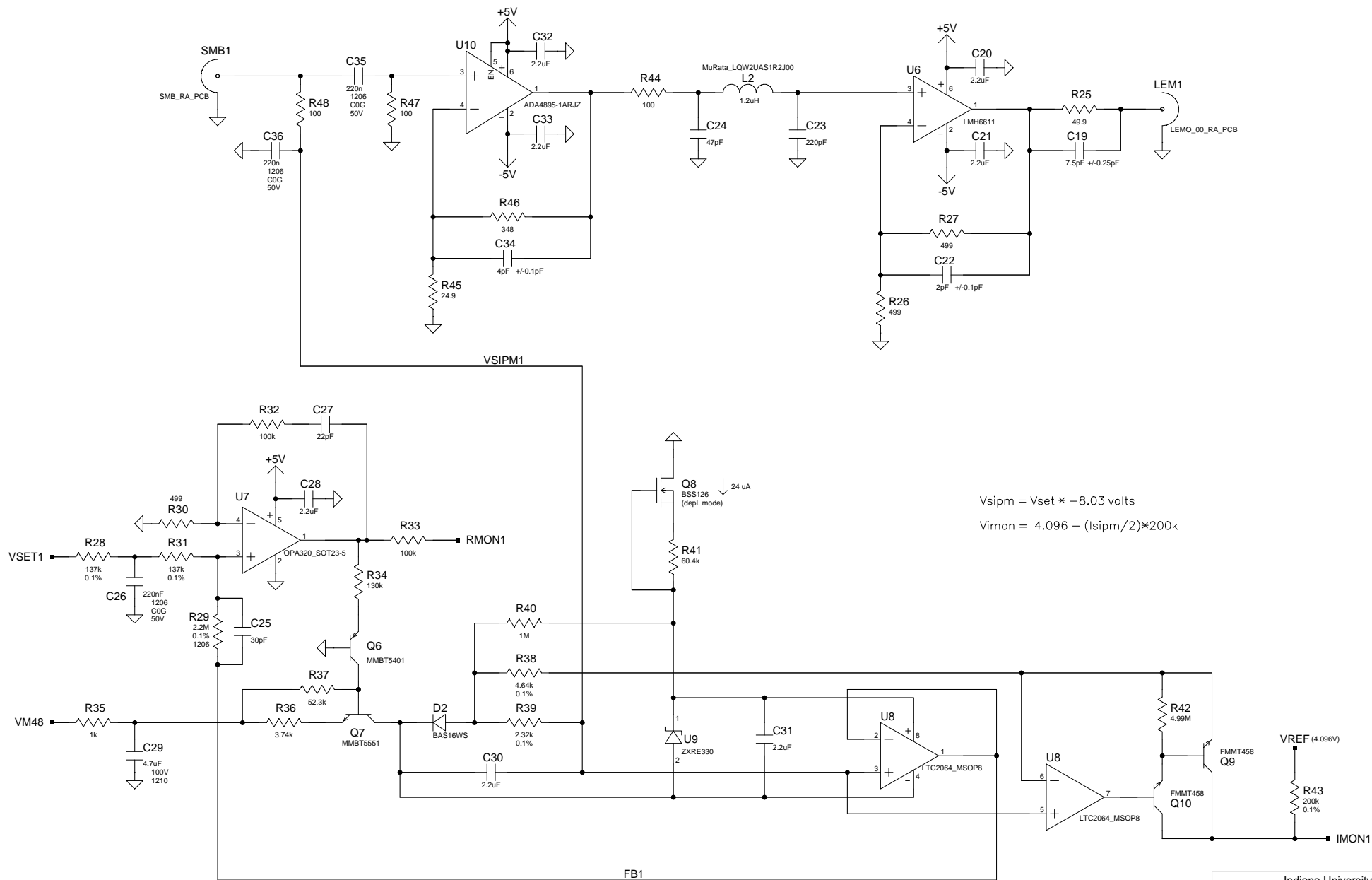


Indiana University Physics Department		
Ultra Cold Neutron Lifetime 8 channel SiPM control/amplifier		
DAC,ADC	@PRINTORDER=2	
Paul Smith	Gerard Visser	03/14/2019
ptsmith@indiana.edu		

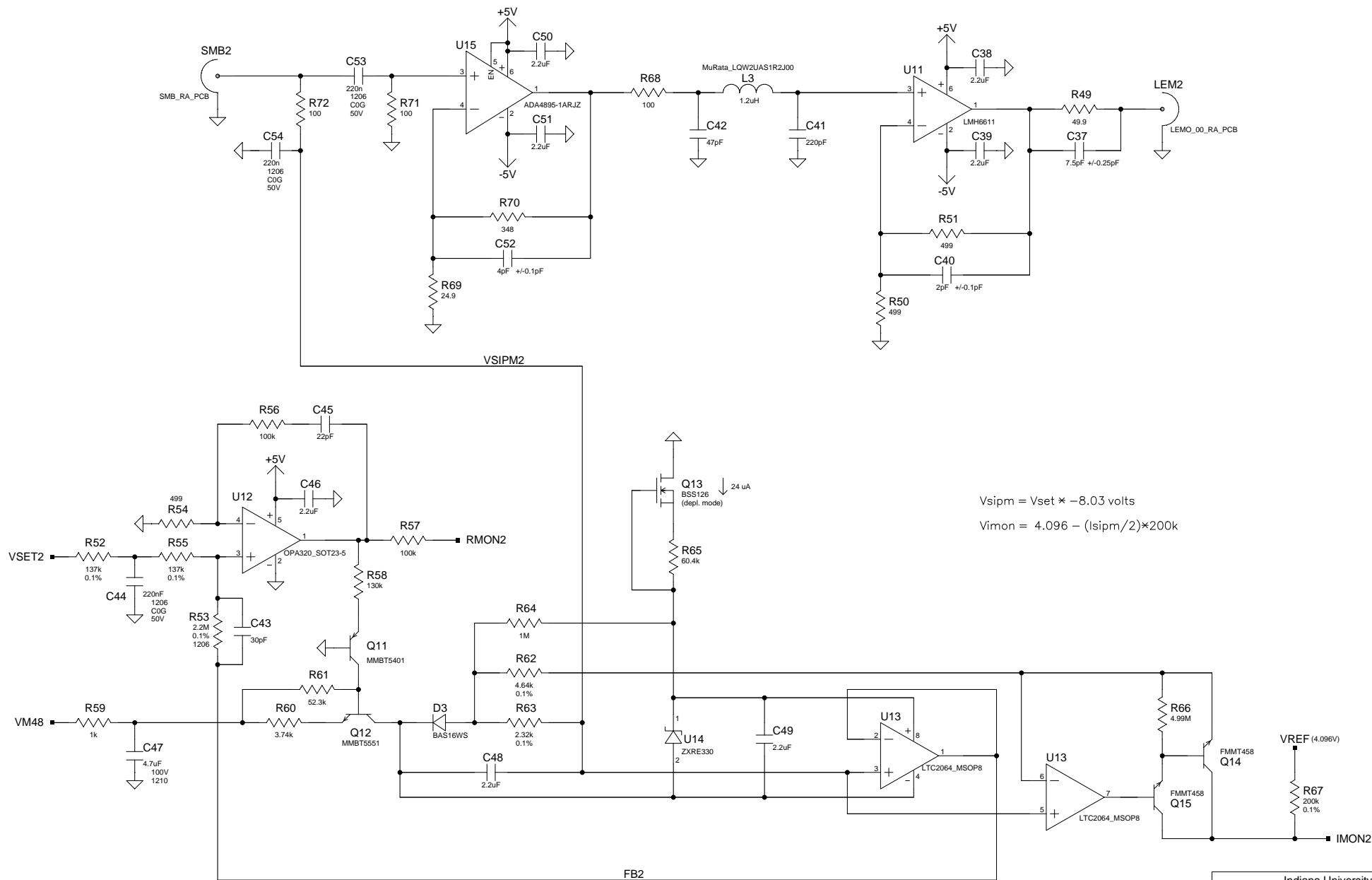


$$V_{sipm} = V_{set} \times -8.03 \text{ volts}$$

$$V_{imon} = 4.096 - (I_{sipm}/2) \times 200k$$



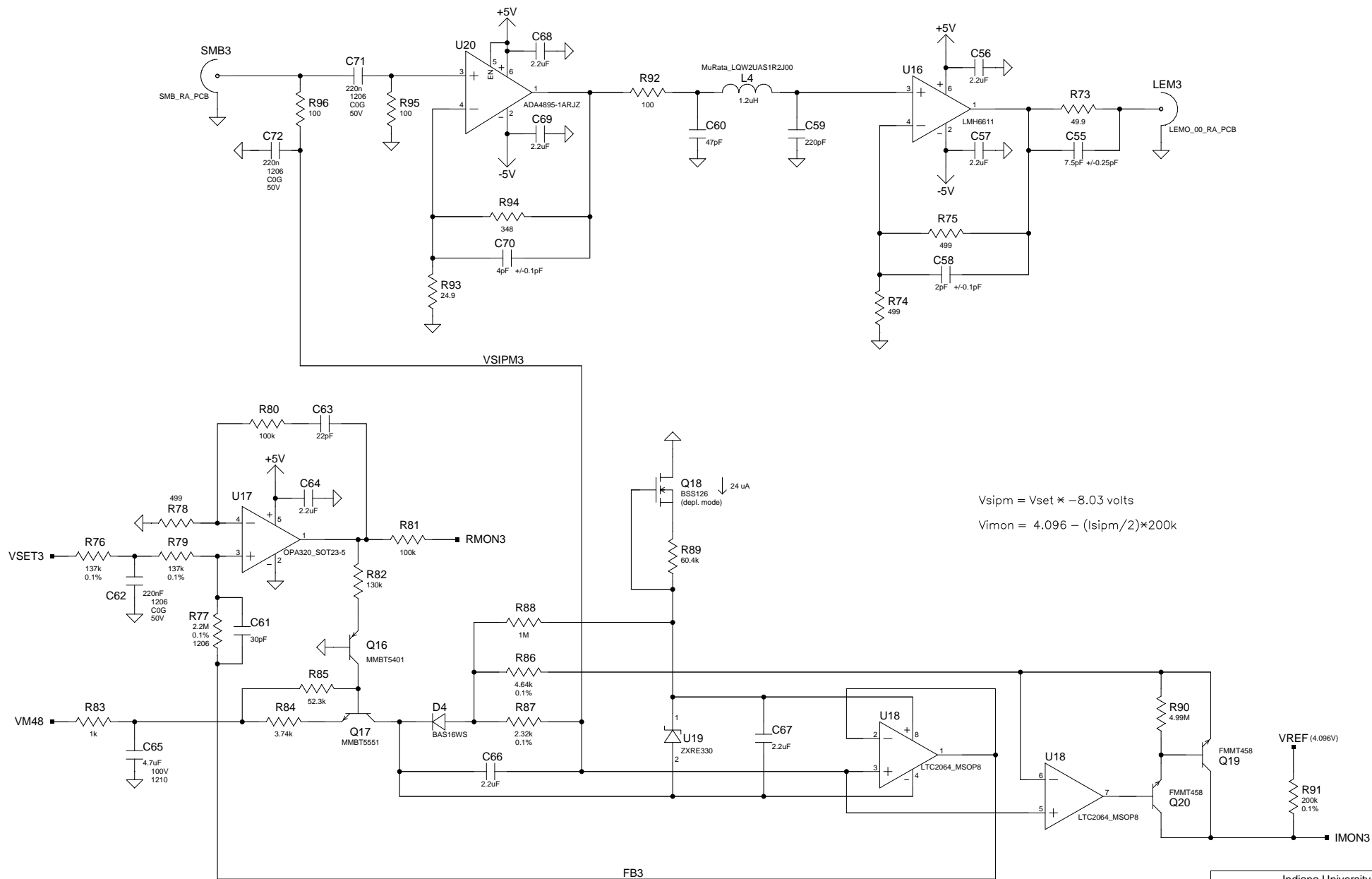
Indiana University Physics Department		
Ultra Cold Neutron Lifetime 8 channel SiPM control/amplifier		
Channel 1	@PRINTORDER=4	
Paul Smith	Gerard Visser	03/14/2019
ptsmith@indiana.edu		

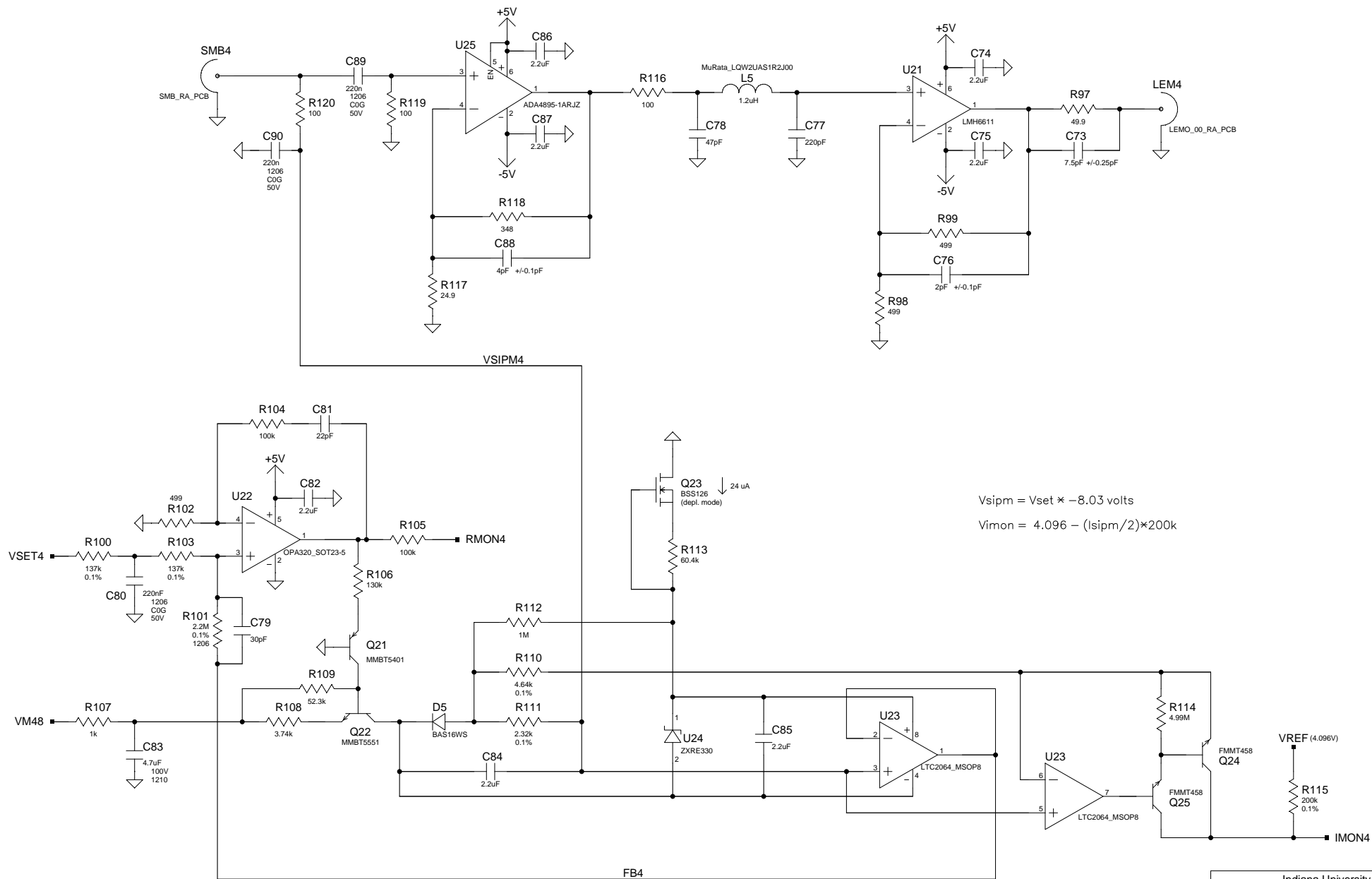


$$Vsipm = Vset \times -8.03 \text{ volts}$$

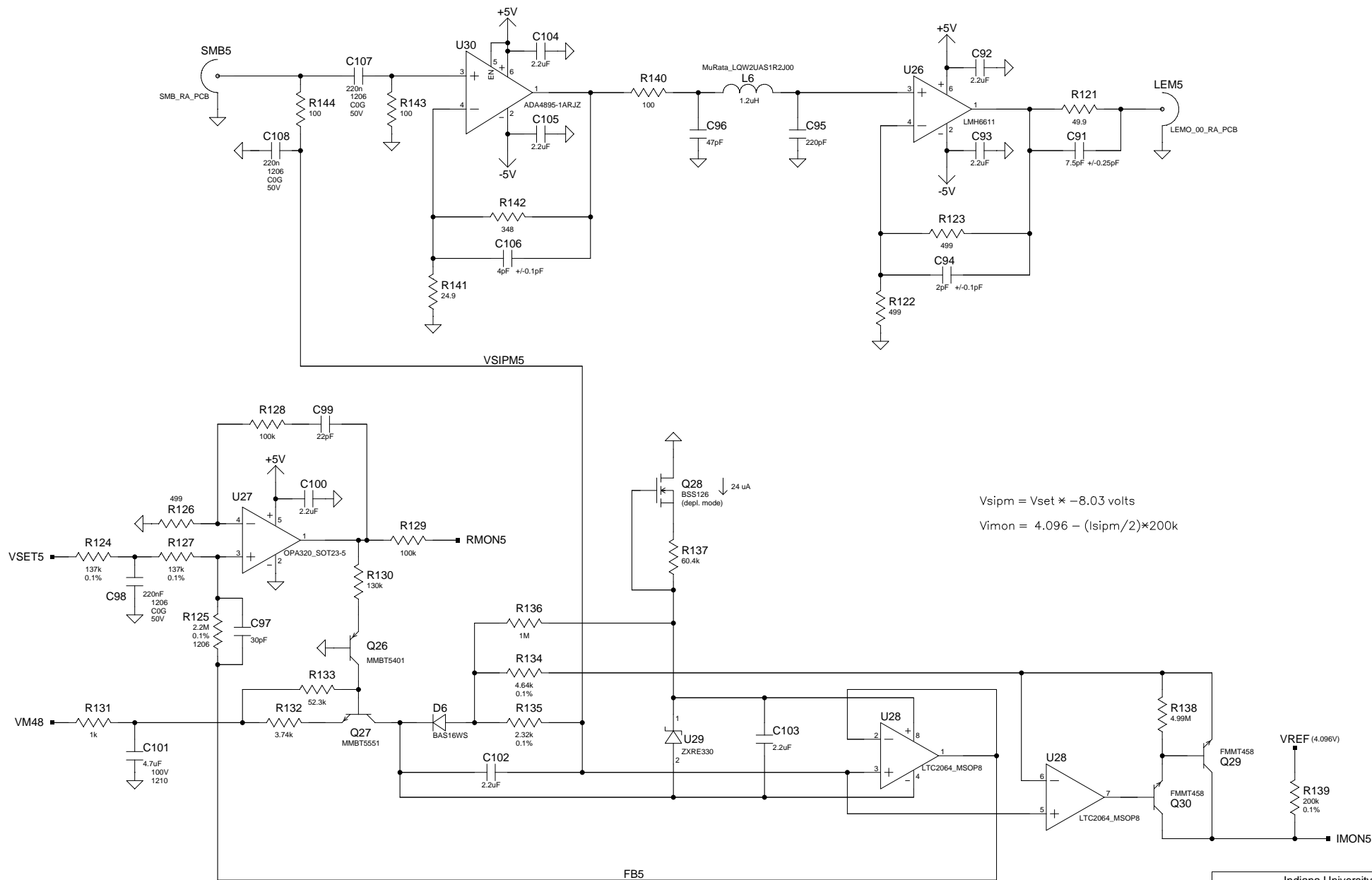
$$Vimon = 4.096 - (Isipm/2) \times 200k$$

Indiana University Physics Department		
Ultra Cold Neutron Lifetime 8 channel SiPM control/amplifier		
Channel 2	@PRINTORDER=5	
Paul Smith	Gerard Visser	03/14/2019
ptsmith@indiana.edu		

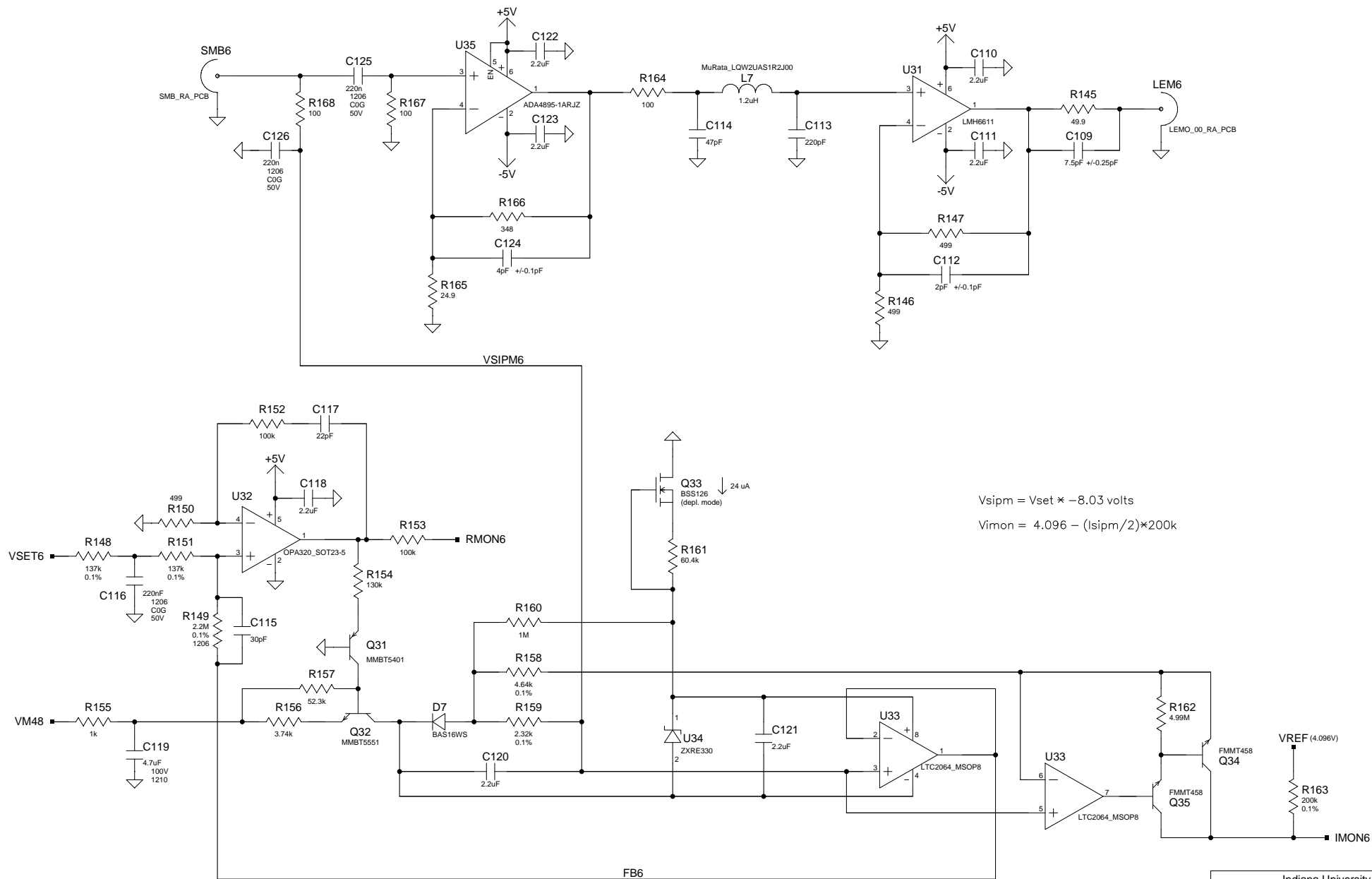




Indiana University Physics Department		
Ultra Cold Neutron Lifetime 8 channel SiPM control/amplifier		
Channel 4	@PRINTORDER=7	
Paul Smith	Gerard Visser	03/14/2019
ptsmith@indiana.edu		



Indiana University Physics Department		
Ultra Cold Neutron Lifetime 8 channel SiPM control/amplifier		
Channel 5	@PRINTORDER=8	
Paul Smith	Gerard Visser	03/14/2019
ptsmith@indiana.edu		



Indiana University Physics Department		
Ultra Cold Neutron Lifetime 8 channel SiPM control/amplifier		
Channel 6	@PRINTORDER=9	
Paul Smith	Gerard Visser	03/14/2019
ptsmith@indiana.edu		

