

.tran 10 .ic V(th1)=0 V(th1dt1)=0 V(th2)=0 V(th2dt1)=0 .param kpp=10 kvp=30 kvi=10 .param v_lim=2000/60*2*pi v_min=-v_lim v_max=v_lim .param t_min=- t_lim t_max=t_lim t_lim=8.76 .param JM=0.00188 JL=0.0196 DM=0.0001 DL=0.01 .param kgb=1000 dbdeg=0.1 dbrad=dbdeg*pi/180 .param azposdeg=180 azposrad=azposdeg*pi/180 .param gretio=81*110/23 mtrposrad=azposrad*gretio .param mtrrpm=2000 mtrrad=mtrrpm/60*2*pi .param mtime=mtrposrad/mtrrad

