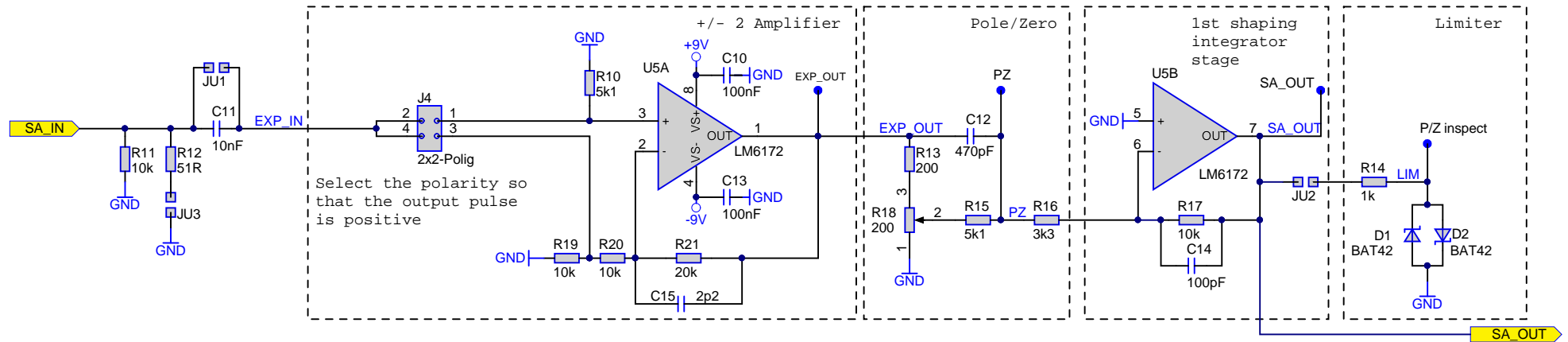
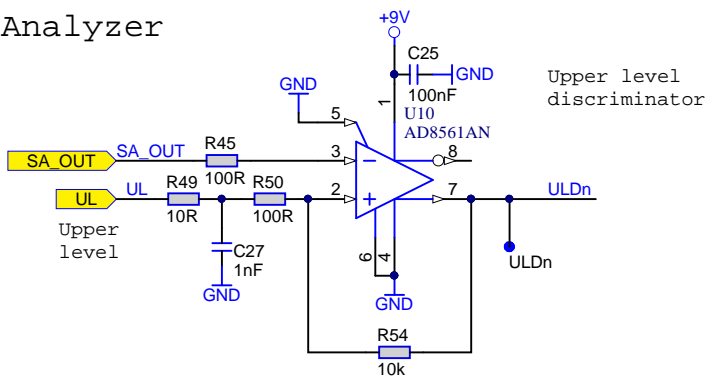


# +/- Amplifier, Pole/Zero correction and Shaping Amplifier

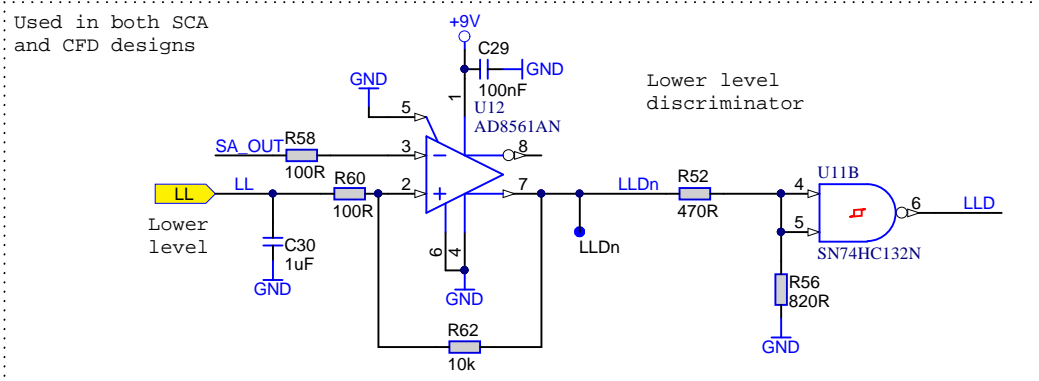
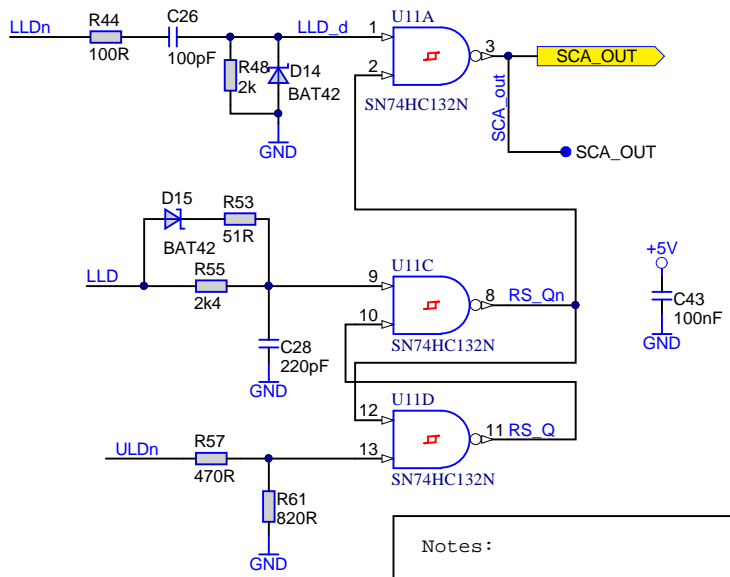
VOP+/- is +/- 9 V  
for up to 6V signals



Single Channel Analyzer

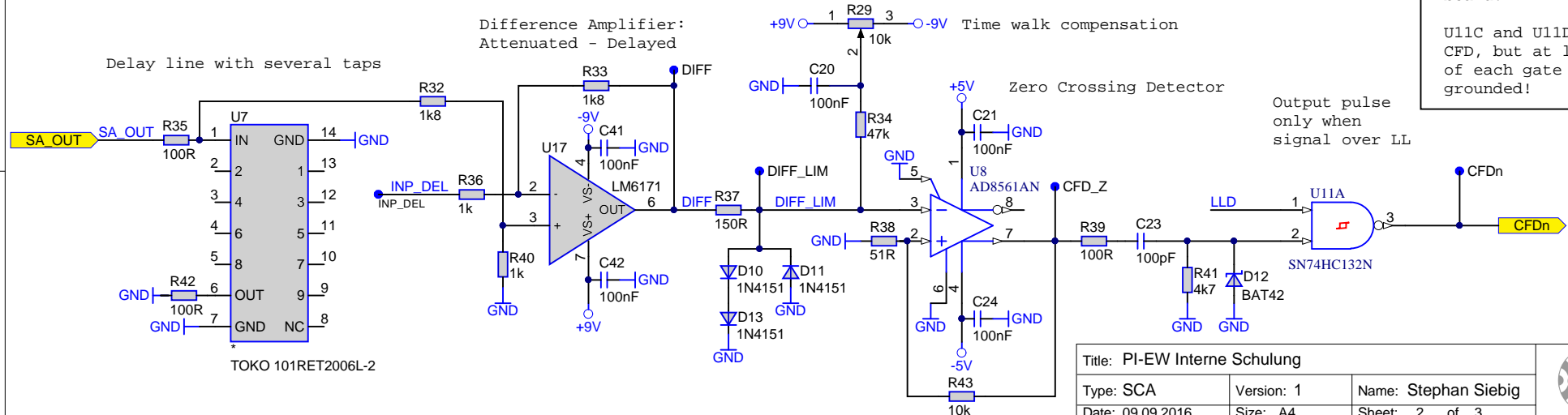


Logic to generate an output pulse when only the lower level discriminator fired



Used in both SCA and CFD designs

Constant Fraction Discriminator



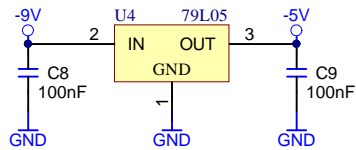
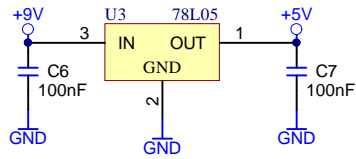
Notes:

U11A used in both SCA and CFD but with different connections!

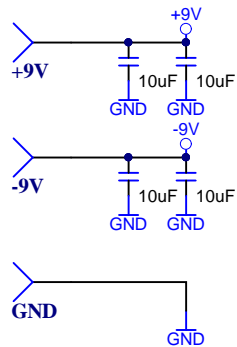
For CFD: U10 can be removed to get more space on the board!

U11C and U11D not used in CFD, but at least one input of each gate should be grounded!

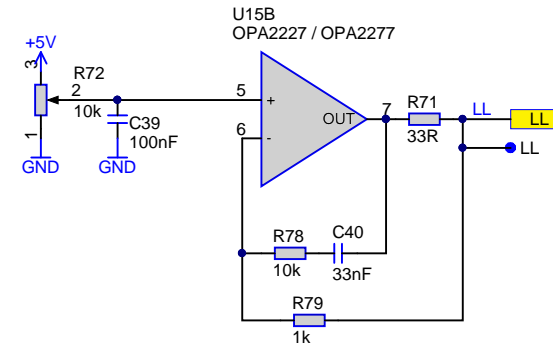
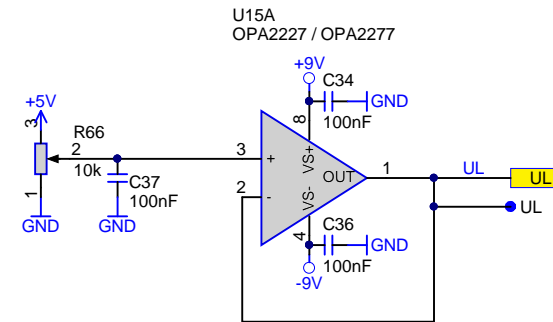
## Voltage regulator



Note: +9V and -9V directly from the lab power supply!



## Thresholds for the SCA (UL, LL) and CFD (LL)



Title: PI-EW Interne Schulung

Type: SCA

Version: 1

Name: Stephan Siebig

Date: 07.09.2016

Size: A4

Sheet: 3 of 3

File: Power.SchDoc



Physikalisches Institut Heidelberg