Schmitt Trigger Circuit Otto H. Schmitt (1934) -> on electrical engineer proposed this oft. # Comparators 1 Non-Inverting Comparators > VI>VEEF > VO=VH -> VILVEEF -> VO = VL Transfer characteristics Comparator: Inverting > Vs>Veer -> Vo=VL -> Vr L VEEF -> Vo = VH Transfer characteristics

Non-Inverting comparator with ref. voltage: This prevent DC bias effect inside op-amp P111 P2 $\rightarrow I=0 \rightarrow V=0$ always NOW. Node equation at V+ $\Rightarrow \frac{\sqrt{1} \, \mathcal{L}_1}{\mathcal{L}_1 + \mathcal{L}_2} + \frac{\sqrt{\mathcal{L}_{\text{REF}}} \, \mathcal{L}_2}{\mathcal{L}_1 + \mathcal{L}_2} > 0$ VREF PI V+ F2 . VI > (-P) VREF $\frac{\sqrt{+-\sqrt{per}}}{2} + \frac{\sqrt{+-\sqrt{p}}}{2} = 0$ →) Vo=VH $V_{+} = V_{\text{REF}} \left(\frac{\rho_{2}}{\rho_{1} + \rho_{2}} \right) + V_{I} \left(\frac{\rho_{1}}{\rho_{1} + \rho_{2}} \right)$ VI L (- Paper) VEEF V- =0 comparator with ref. voltage: (-P2) Ver Vo = V2 \rightarrow if $\sqrt{1} < \left(-\frac{\ell_2}{R_1}\right) \vee_{REF} \rightarrow \vee_o = \vee_H$ V-= VI P1 + VREF P2 P2 → if Vs>(-\frac{\rho_{f}}{\rho_{f}})V\(\rho_{f} \rightarrow \rangle \rightarrow \rightar