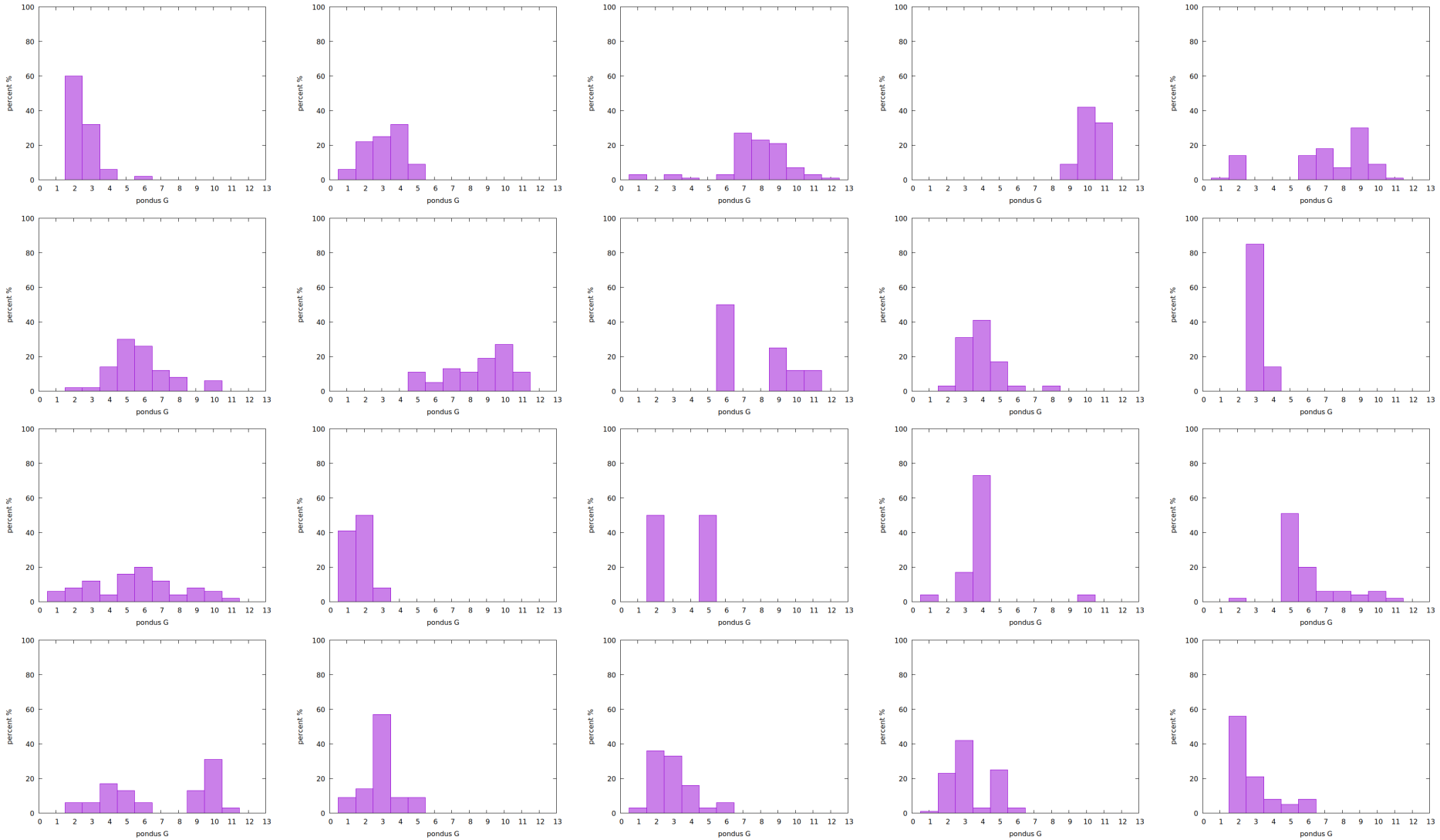
Sol-gel ZrO_2 film optimized via Genetic Algorithm

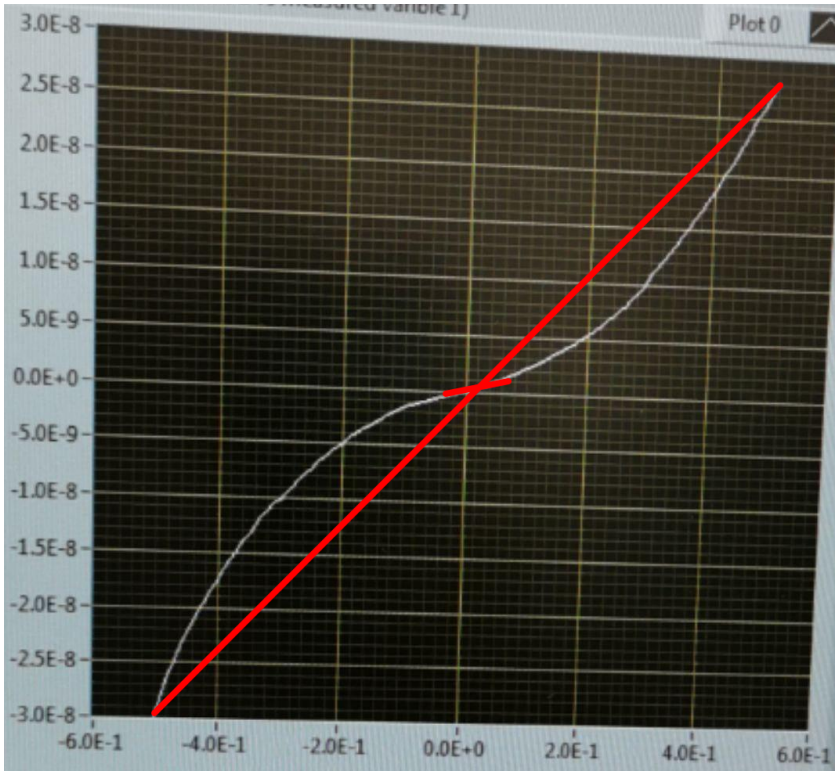
Johann Dorn

March 5, 2021

Statistics

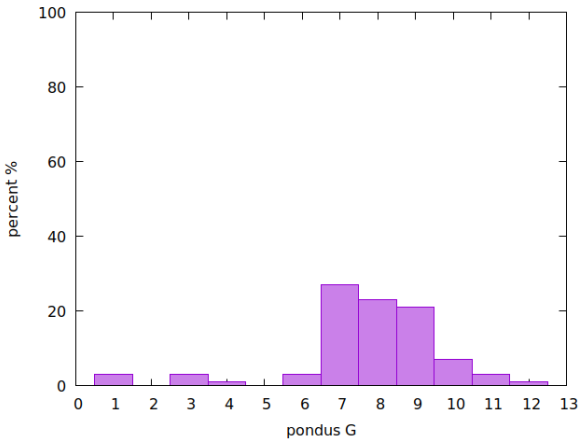


Calculation

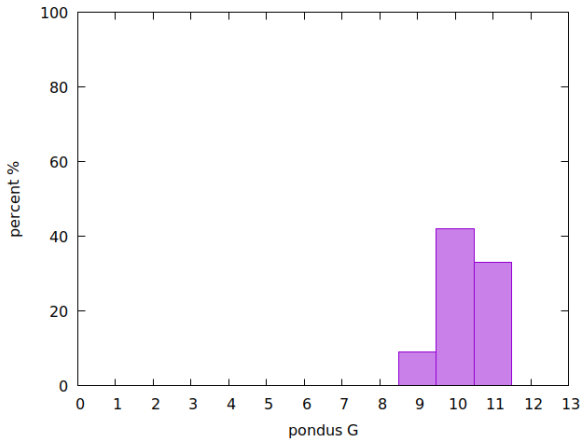


- $G = \frac{dI}{dV} = 4.234E\text{-}6$
- G' = log(|G|) = -5.37
- pG = -log(|G|) = 5.37
  pondus,power,potential
- Q: which points best for dV
- min max overestimation ?
- average ?

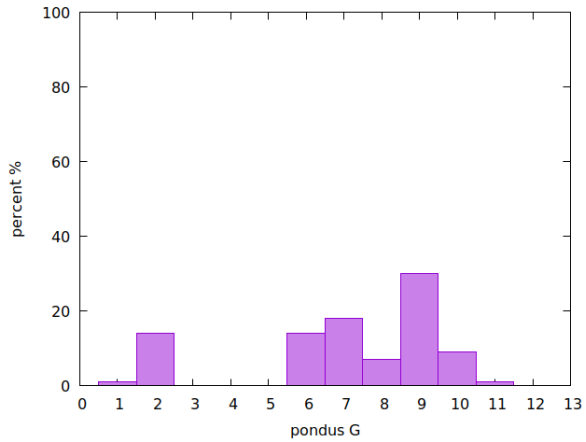
Best of



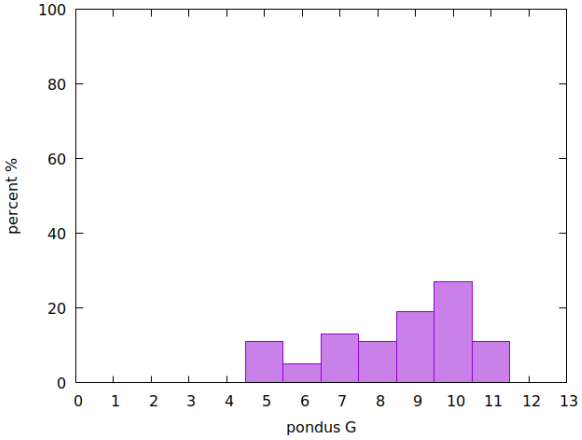
(a) 146, 10x1F HG



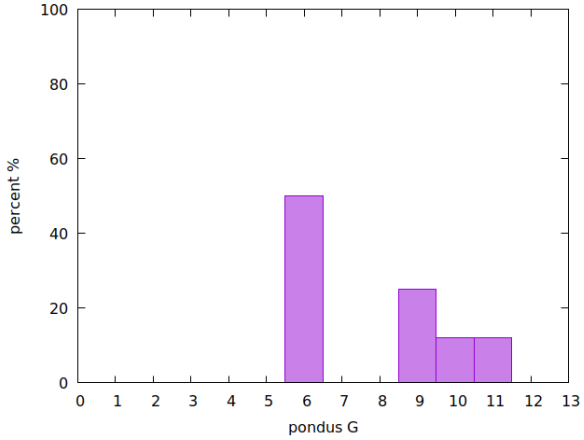
(b) 150, 5x2F HG



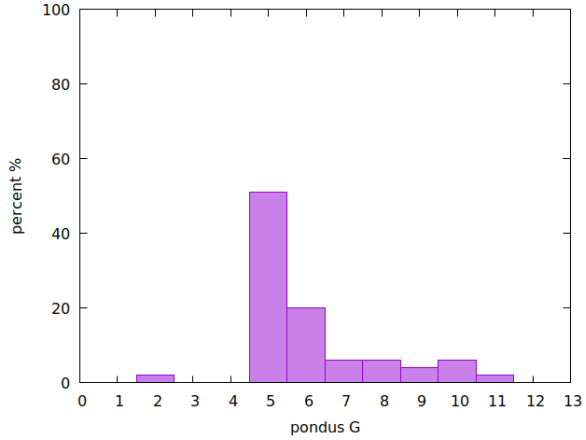
(c) 151, 2x2F HG



(d) 153, 3x4F HG



(e) 154, 3x4F HG



(f) 187, 10x1F 5mm/s

All questions

- where should be threshold be for holes?
- how to calculate derivative?
- boundaries for Tcal = [300:500] [400:500] °C
- layers = [6:14] [4:10]
- conc = [2:5] [1:5]
- vDoc = [10:20] mm/s
- TDOC = [40:80] °C
- vCal = [2:16] °C/min
-