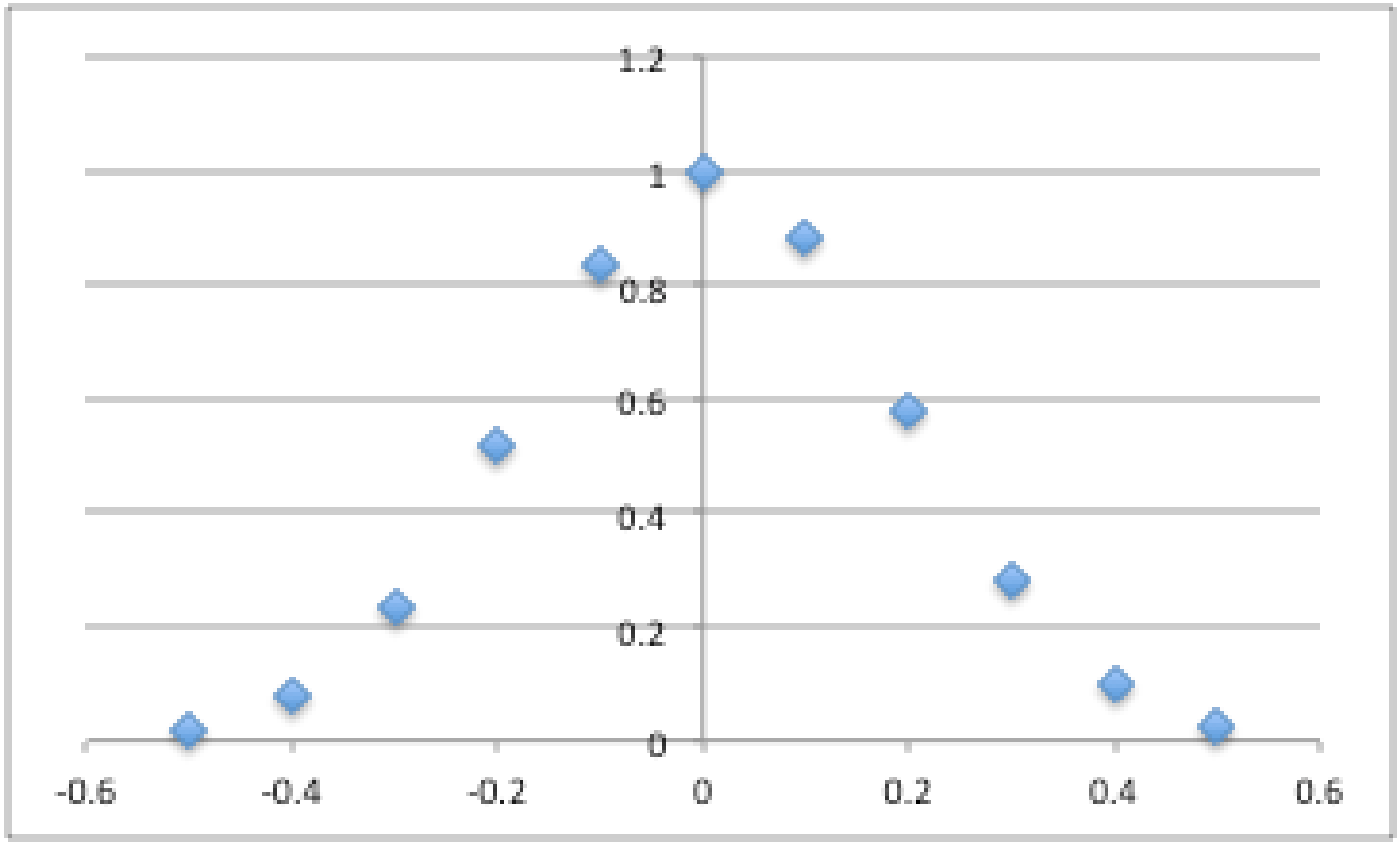
20% convolution and weighted center

$$f = e^{-\frac{(t-0.01)^2}{1/15}}$$



This time I collect the points larger than 20%, so in this graph, there are 7 points.

- Center: 0.01;
- Weight Center: 0.0075
- Convolution: 0.0091 $\pm$ 0.0001;

$$f = e^{-\frac{(t-0.02)^2}{1/15}}$$

- Center: 0.02;
- Weight Center: 0.015
- Convolution:
- 0.018 ± 0.001;

$$f = e^{-\frac{(t-0.04)^2}{1/15}}$$

- Center: 0.04;
- Weight Center: 0.044
- Convolution:
- 0.042 ± 0.001;

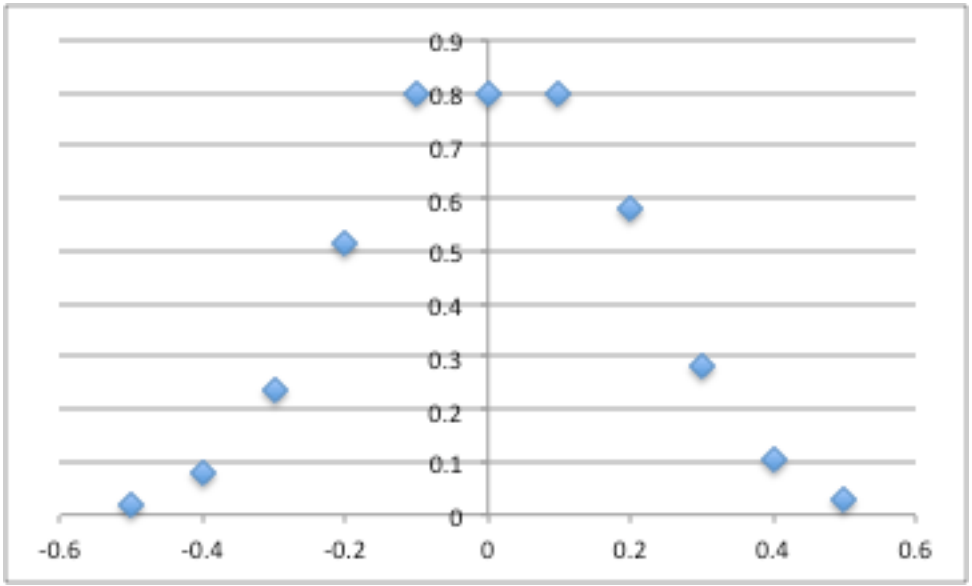
$$f = e^{-\frac{(t-0.03)^2}{1/15}}$$

- Center: 0.03;
- Weight Center: 0.038
- Convolution:
- 0.034 ± 0.001;

$$f = e^{-\frac{(t-0.05)^2}{1/15}}$$

- Center: 0.05;
- Weight Center: 0.05
- Convolution:
- 0.05 ± 0.001;

$$f = e^{-\frac{(t-0.01)^2}{1/15}}$$



The maximum of f is 0.8

- Center: 0.01;
- Weight Center: 0.0068
- Convolution: 0.0077 $\pm$ 0.0001;

$$f = e^{-\frac{(t-0.02)^2}{1/15}}$$

- Center: 0.02;
- Weight Center: 0.013
- Convolution:
- 0.015 ± 0.001;

$$f = e^{-\frac{(t-0.04)^2}{1/15}}$$

- Center: 0.04;
- Weight Center: 0.028
- Convolution:
- 0.034 ± 0.001;

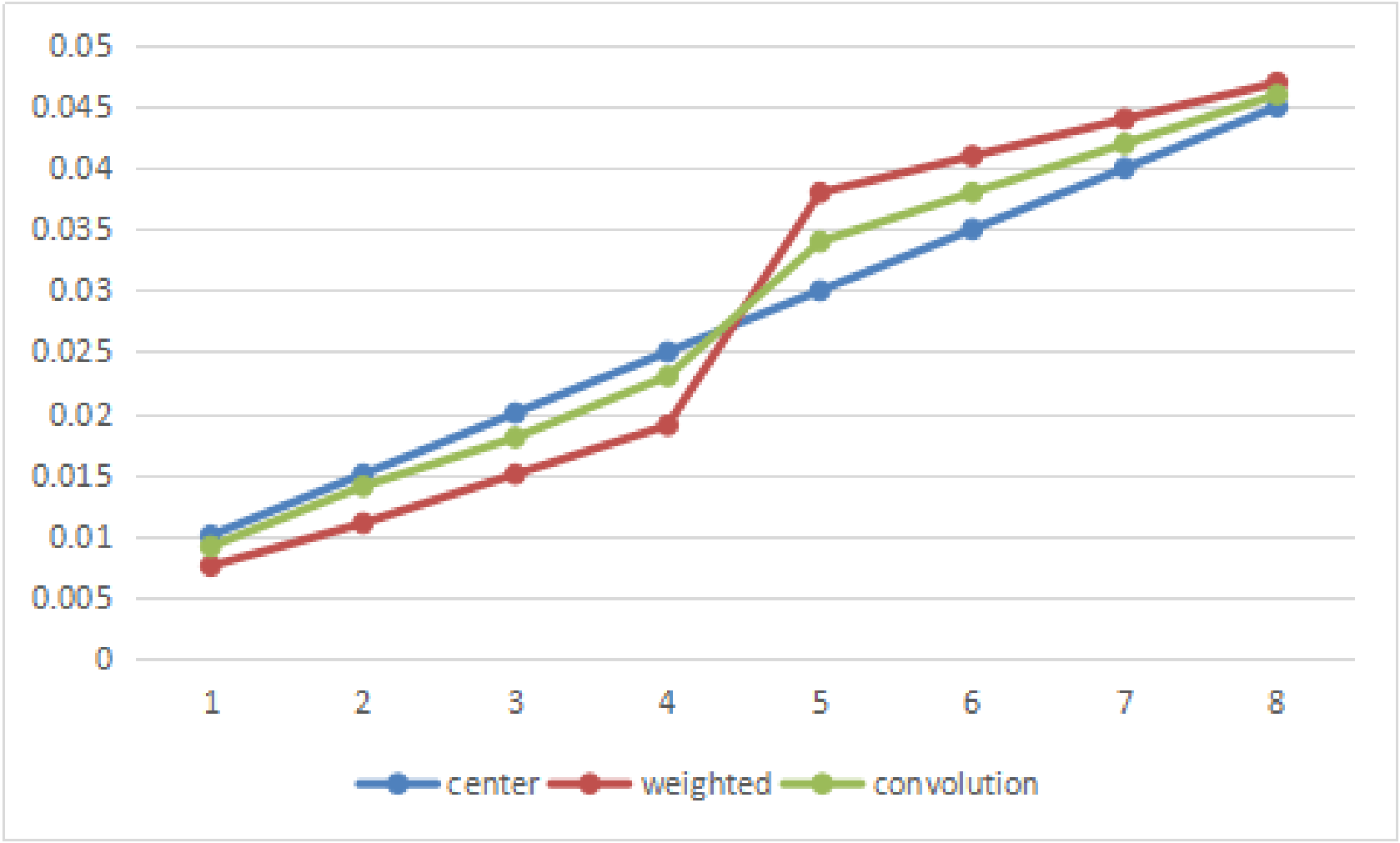
$$f = e^{-\frac{(t-0.03)^2}{1/15}}$$

- Center: 0.03;
- Weight Center: 0.021
- Convolution:
- 0.024 ± 0.001;

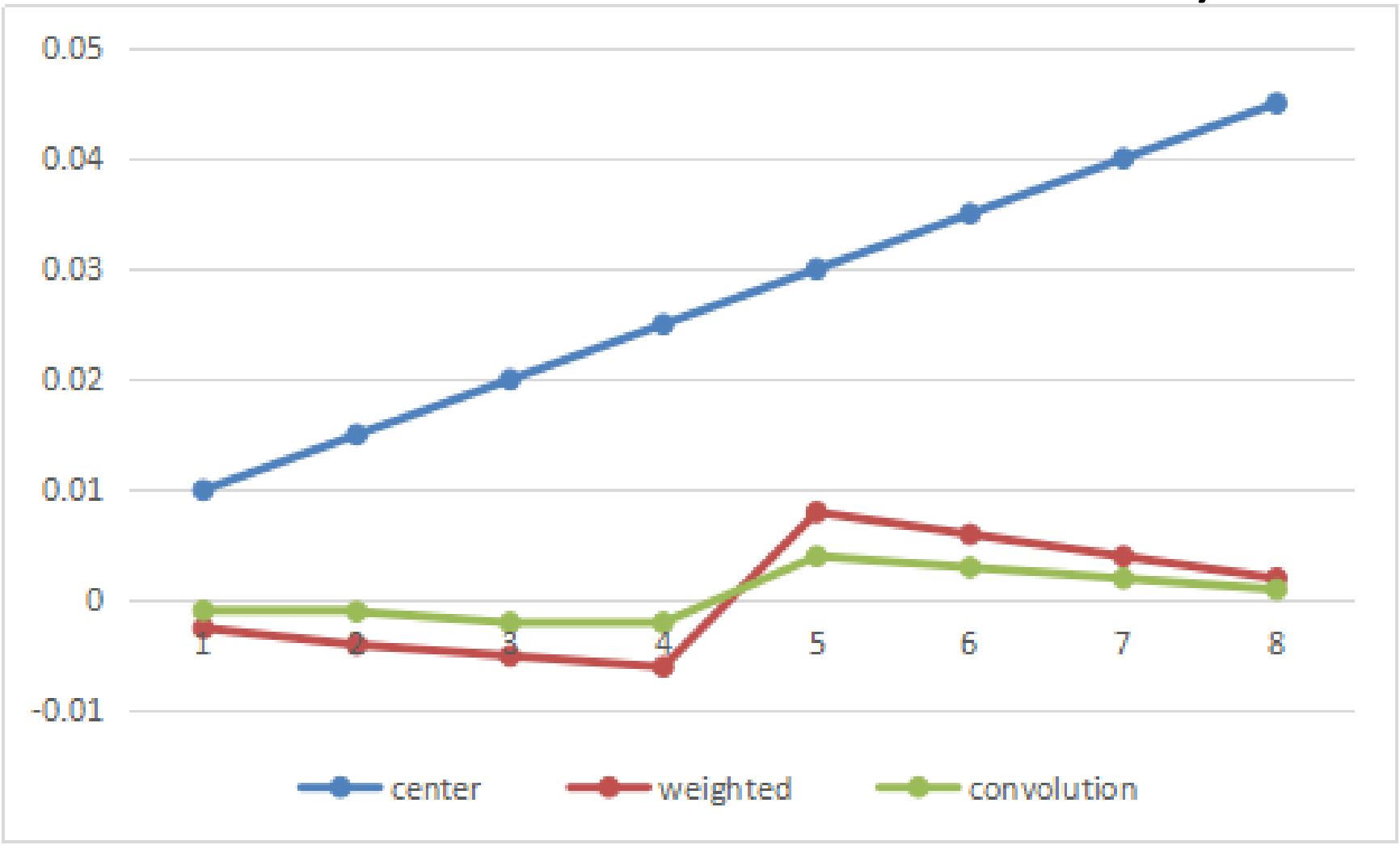
$$f = e^{-\frac{(t-0.05)^2}{1/15}}$$

- Center: 0.05;
- Weight Center: 0.05
- Convolution:
- 0.05 ± 0.001;

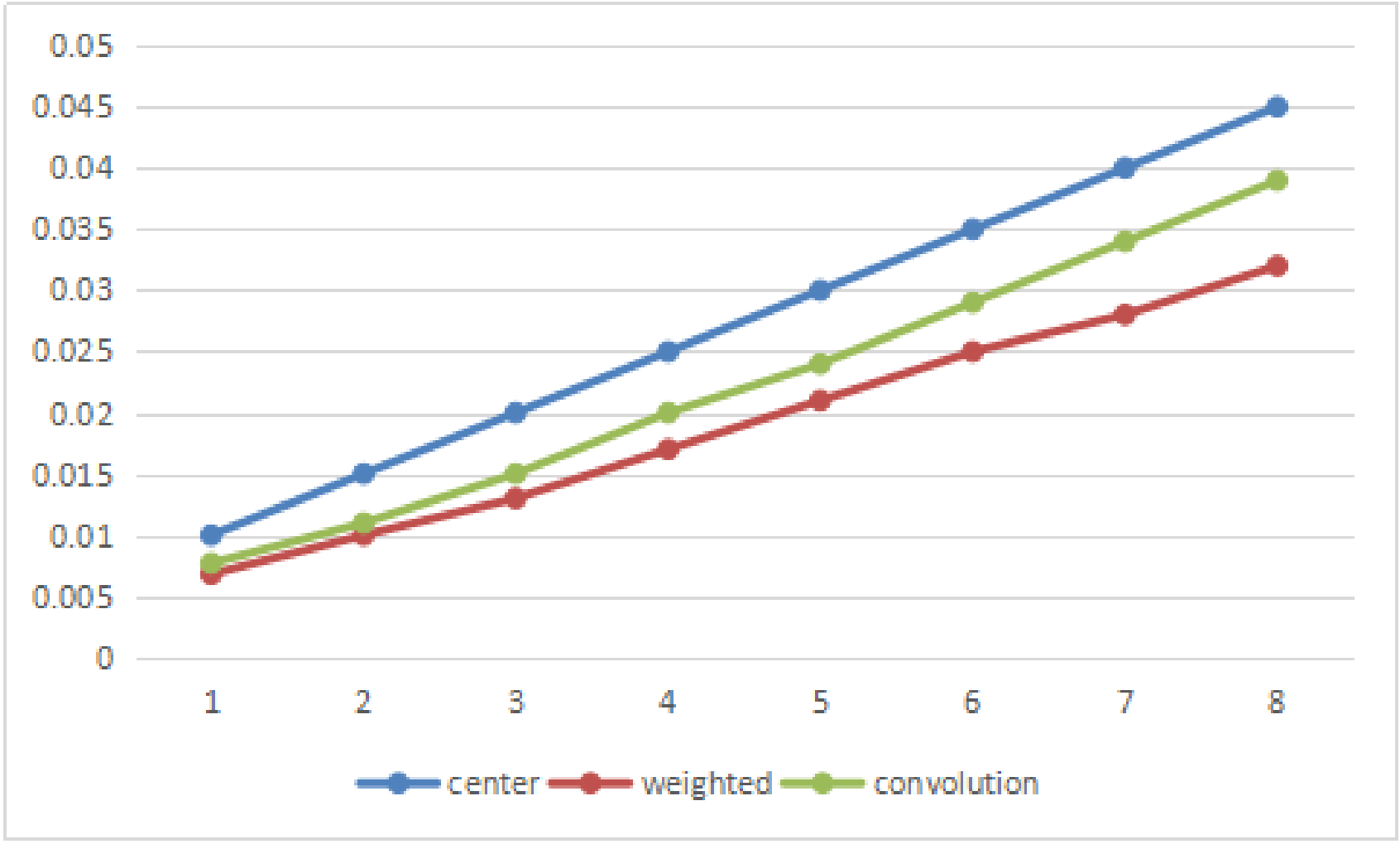
completed gaussian



completed(difference between two centers and the “real” center)



saturated


0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
1
2
3
4
5
6
7
8
center
weighted
convolution

saturated(difference between two centers and the “real” center)