

## Povprečja

- 1.) Interval.dat (podaja časovne intervale med zaporednimi prihodi posameznih fotonov v detektor)

$$y_{\text{pov}} = 311.084985 = 311.08, \quad \sigma_{\text{may}} = 314.9990671 = 315.00$$

$$1.\text{tretjina: } y_{\text{pov}} = 302.7642643 = 302.76, \quad \sigma_{\text{may}} = 324.1524689 = 324.15$$

$$2.\text{tretjina: } y_{\text{pov}} = 331.60, \quad \sigma_{\text{may}} = 328.1143393 = 328.11$$

$$3.\text{tretjina: } y_{\text{pov}} = 298.8906907 = 298.89, \quad \sigma_{\text{may}} = 291.369879 = 291.37$$

- 2.) Agxx.dat (radioaktivni razpad šibkega izotopa)

$$y_{\text{pov}} = 17.403 = 17.4, \quad \sigma_{\text{may}} = 4.17420831 = 4.17, \quad \mu_{\text{uy}} = 0.267247 = 0.27$$

- 3.) Ozadje.dat (meritev absorpcije rentgenskih žarkov)

$$y_{\text{pov}} = 1.77893\text{E-}08 = 1.78\text{E-}08, \quad \sigma_{\text{may}} = 7.01202\text{E-}05 = 7.01\text{E-}05, \quad \mu_{\text{uy}} = 0.083587 = 0.08$$

- 4.) Sinus ( $x \cdot 0.1$ )

$$y_{\text{pov}} = -1.72857\text{E-}05 = -1.73\text{E-}05, \quad \sigma_{\text{may}} = 0.707849737 = 0.71$$