

Correcting  $\sigma_{dp/dt} \sim$  baseline error from 2020/01/28.6

2020/01/30.8

$$c_{33} = \frac{c_{33}^{\text{element}}}{\det(b)} = \frac{1}{\det(b)} \cdot \frac{\sigma^2 \text{Var}(x)}{N} = \frac{\sigma^2 (\Delta x)^2}{12N} \frac{1}{\det(b)}$$

And before, we found

$$\det(b) = (\Delta x)^6 / 2160,$$

s,

$$c_{33} = \frac{\sigma^2}{N (\Delta x)^4} \frac{2160^{1/2}}{12} = (\sigma(a_3))^2$$

$$\sigma(a_3) = 6\sqrt{5} \cdot \frac{\sigma}{N^{1/2} (\Delta x)^2}$$

If you presume  $N \sim \tau$ , and clearly  $\Delta x \sim \tau$ , then

$$\boxed{\sigma(a_3) \sim \tau^{-5/2}}$$