## **GMOR** error propagation

m - fermion mass /  $\Sigma$  - chiral condensate / M - pion mass

$$F_{\pi}=rac{\sqrt{2m\Sigma}}{M}$$

$$\sigma_F = \sqrt{rac{m}{2\Sigma M^2}\sigma_\Sigma^2 + rac{2m\Sigma}{M^4}\sigma_M^2} = rac{1}{M}\sqrt{rac{m}{2\Sigma}\sigma_\Sigma^2 + rac{2m\Sigma}{M^2}\sigma_M^2}$$

Hip, 2022-04-20