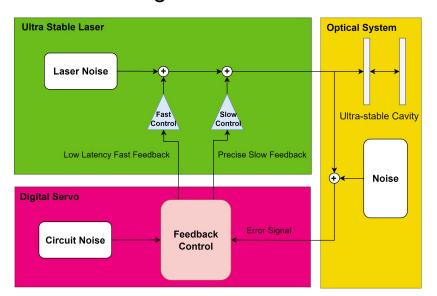
## **Our Hardware**

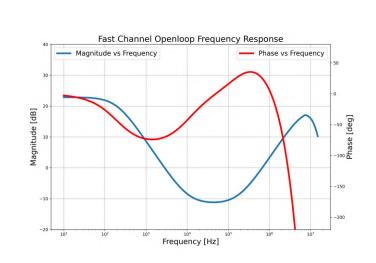
## A Full Digital Servo for

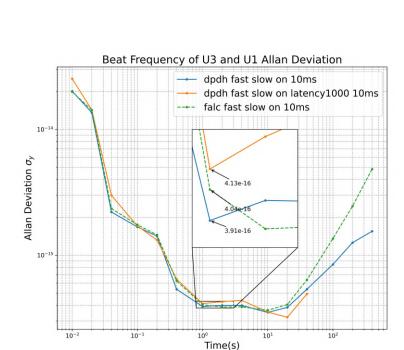
214,614,220,160,499.34 Hz\*

## Laser Frequency Stabilization

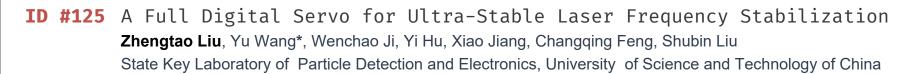
- 120ns digital latency
- 1933nV/√Hz@1Hz
- Full configurable dual feedback channel
- AMO experiements
- Atomic clock
- More application in ...







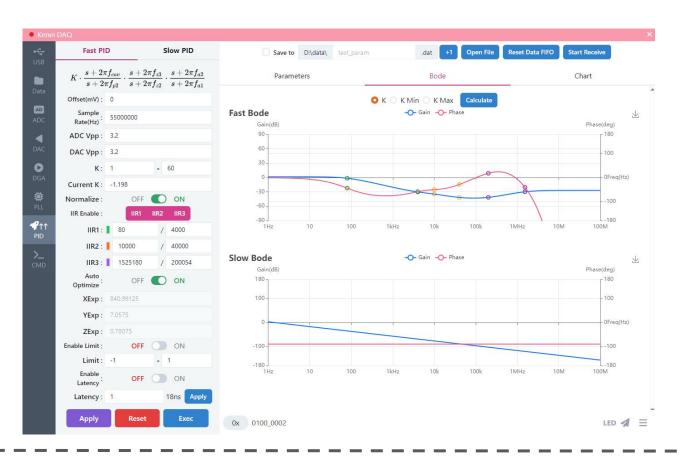
\*Approximated on 1396.890nm laser with allan deviation at 4e-16

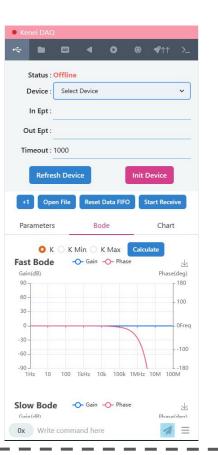




## **Our Software**

- React-based frontend
- Rust-based USB3.0 high speed backend
- Python-based remote webserver backend
- mobile and desktop friendly design
- high sample rate analysis
- multi-platform remote monitor





- Data transfer
- PID param control
- Out of lock notification



ID #125 A Full Digital Servo for Ultra-Stable Laser Frequency Stabilization Zhengtao Liu, Yu Wang\*, Wenchao Ji, Yi Hu, Xiao Jiang, Changqing Feng, Shubin Liu State Key Laboratory of Particle Detection and Electronics, University of Science and Technology of China

