

- Legend plot on next slide

- unfiltered data
- filtered data
- detector calibration

AHRS data  $\rightarrow$  (yaw, pitch, roll)  $\rightarrow Q \rightarrow QQ_0^{-1}$   
same but data with angle  $> 5$  deg removed  
`getRotation(<module_1>, <module_2>)`<sup>¶</sup>

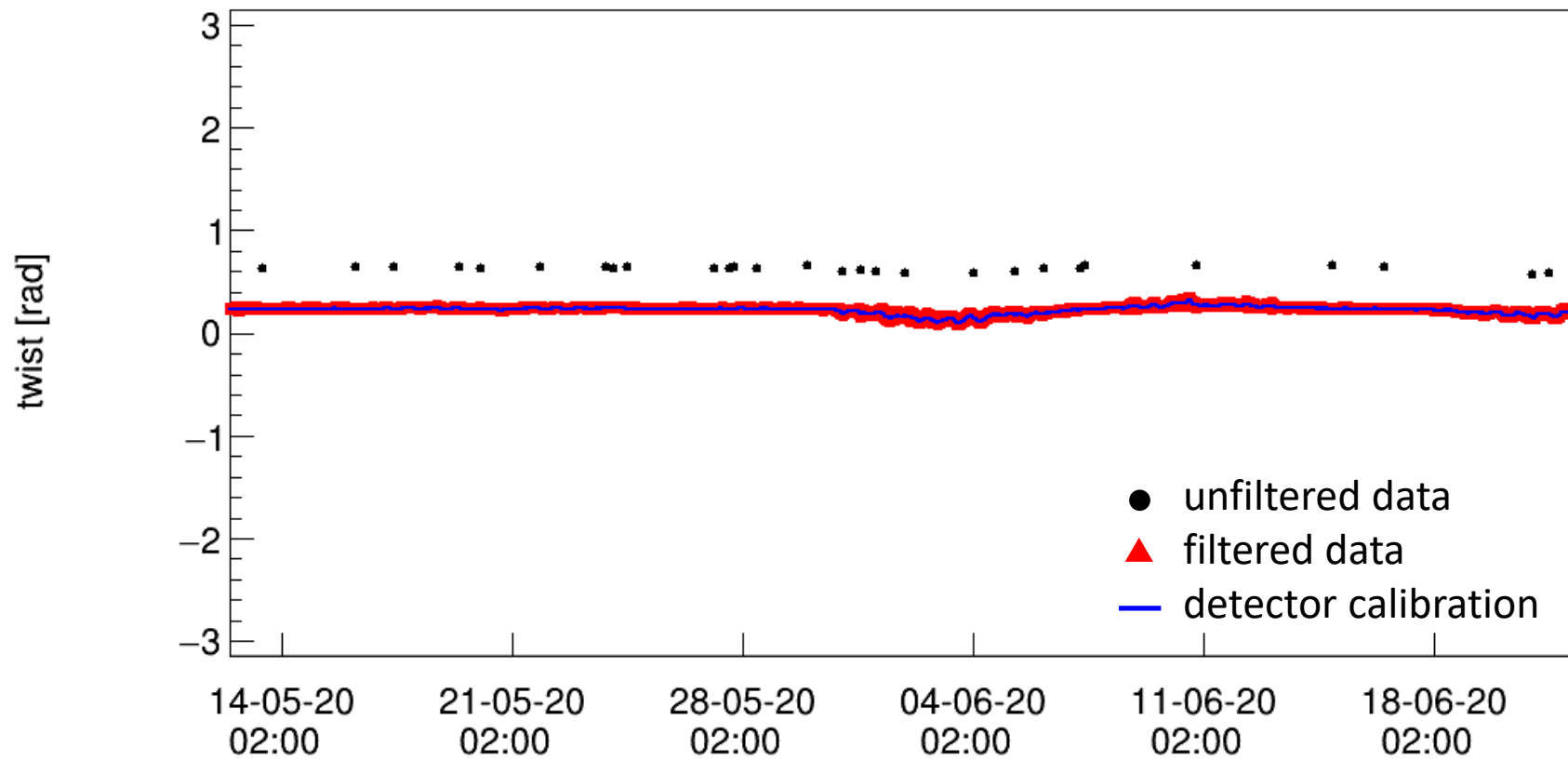
- Definitions

- `module_0`  $\equiv$  `getModule(JModuleAddressMap)` // reference
- `module_1`  $\equiv$  `JDetector::load(<detector file>)` // static
- `module_2`  $\equiv$  `JBallarat::operator(<t_s>)` // dynamic
- $Q_0$   $\equiv$  `getRotation(<module_0>, <module_1>)`<sup>¶</sup> //  $R(0 \rightarrow 1)$

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<sup>¶</sup> Gram-Schmidt orthogonalization.

(0003.17)



twist angle [rad] with respect to detector file →

