

# transientAcceleration\_histogram for all\_types\_of\_terrain

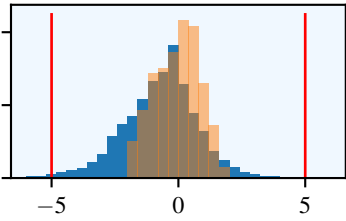
— System limits, — Measured acceleration, — Theoretical acceleration

acceleration\_x on ice

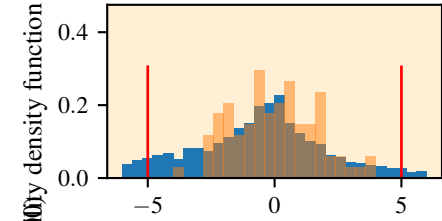
acceleration\_x on gravel

acceleration\_x on grass

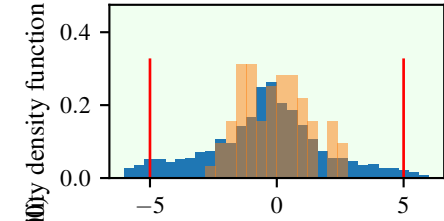
Probability density function (n = 6960)



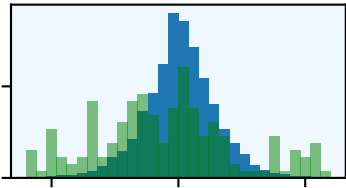
imu\_acceleration\_x  
transient\_state



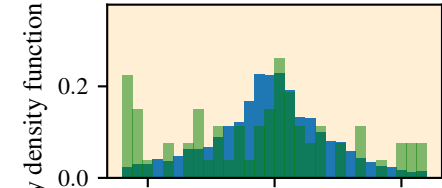
imu\_acceleration\_x  
transient\_state



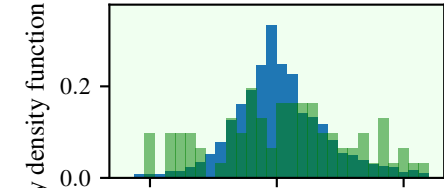
imu\_acceleration\_x  
transient\_state



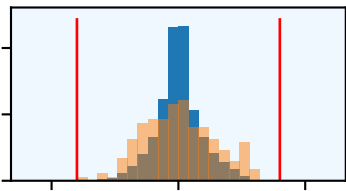
acceleration\_yaw from  
imu\_acceleration\_y  
transient\_state



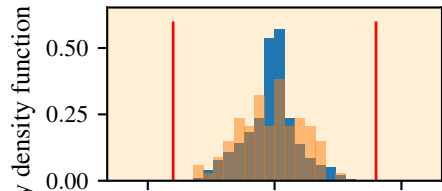
acceleration\_yaw from  
imu\_acceleration\_y  
transient\_state



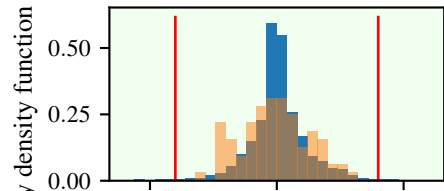
acceleration\_yaw from  
imu\_acceleration\_y  
transient\_state



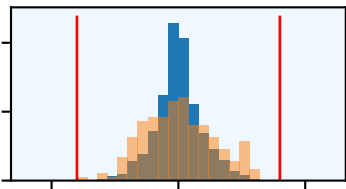
acceleration\_yaw from  
step frame deriv\_vyaw acceleration  
transient\_state



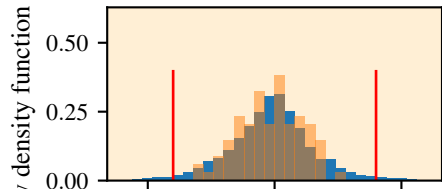
acceleration\_yaw from  
step frame deriv\_vyaw acceleration  
transient\_state



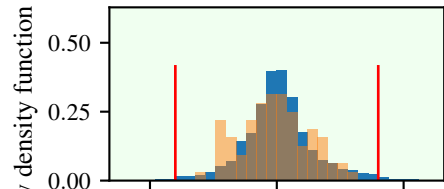
acceleration\_yaw from  
step frame deriv\_vyaw acceleration  
transient\_state



imu\_deriv\_vyaw\_acceleration  
transient\_state



imu\_deriv\_vyaw\_acceleration  
transient\_state



imu\_deriv\_vyaw\_acceleration  
transient\_state