Yaw(Roll=Pitch=0) = Atan2(-y-axis (T), x-axis (T))

yaw2_mag

Description:

The above plot contains the actual MMR data streamed from the MMR unit to an Android phone.

Two methods (Continuous Rotation of the MMR and Discrete ~45 degree Step Rotation of the MMR) were used to generate the data. These two methods are separated by the Black line in the figure above.

The Yellow Circles show landmarks which were added to the data to indicate Start/End of a Test. To generate these data landmarks, the MMR was "Rolled" three times.

The Red Ellipses mark the ranges where the Magnetometer output is clearly bad.