



AiM Webinar
"User Math Channels"
9/8/20
Edited Q&A

1 **Q:** In math channel equations, is '+' used to mean 'or'?

A: [Answered live at 15:27]

2 **Q:** Is there a way to get the position of some other channel included in the coast channel?

A: [Answered live at 29:05]

3 **Q:** how can I create a channel for corrected wheel speed for a motorbike from a standard wheel speed sensor?

A: If you know the difference between what the sensor is reading vs the "correct speed" you can create a math channel to calculate it, however, that would probably be hard to get exactly correct. You could also correct it in the channel settings with either an offset or multiplier. The challenge is the error usually changes with speed, so it gets a little more complex using a math channel for different speeds and then combining them.

4 **Q:** Our MXm records roll rate in deg/s, is it possible for me to convert it to display the degrees of roll using math channels?

A: Body roll would not be a math channel that would be displayable. The math channel for this is a complex one and you would likely need more than the internal gyro/accel platform to achieve this correctly.

5 Q: Do you have basic filters that I can use for data smoothing?

A: Yes, you can click on the channel, open measure information, and use 'filter steps' to smooth the data.

6 Q: Is figuring out how much to filter the data just a matter of trial and error?

A2: It depends but sometimes a low pass will be helpful in removing noise.

A2: [Live answered at 31:34]

7 Q: There has been a lot of interest in being able to “latch” minimum corner speeds or max straight speeds, what are the chances of having some math channels added to support this in real-time on the newer dashes?

A: We are always working on improving the real-time math channels and latching speed is on the list! I do not have a timeline at this point.

8 Q: Is there a way to calculate the amount of time spent going in a straight line?

A: [Answered live at 49:51]

9 Q: Emiliano, are you saying that Excel can create the formula from a trendline?

A: [Answered live at 1:04:12]

10 **Q:** Do you need to adjust for roll?

A: [Answered live at 1:04:52]