

AiM Sports Webinar
 “Dirt Oval Data Analysis Tips”
 7.30.20
 Edited Q&A

1 **Q:** I forgot how to change screen to black data view Help

A: Right click on the measures graph, plot settings, choose the black based settings option. It is currently not a feature of RS3 Analysis

2 **Q:** Is it possible to have the data you use for this webinar to practice with?

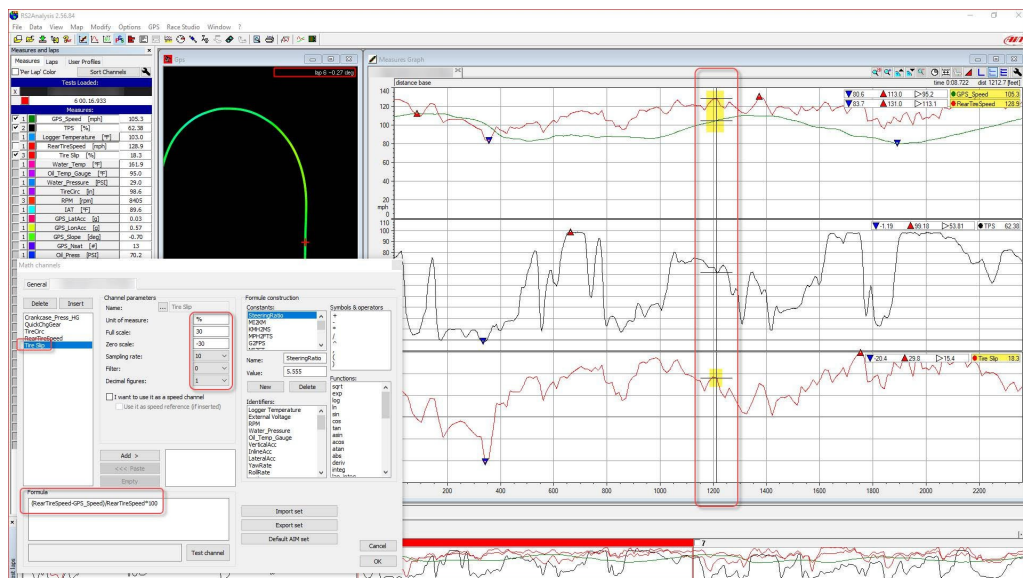
A: It will be linked in the description of the YouTube video once this webinar is posted.

3 **Q:** I have a question off topic certain some maths channels I wanted a good channel from negative and positive slip for a motorcycle.

A: The basics are to compare a driven tire vs a non-driven tire (or the GPS_Speed). In the example below I have used the Rear Tire speed (on a dirt sprint car with a solid ‘Spool’ so there is no rear diff vs the GPS_Speed. Here is the actual formula:

$$(\text{RearTireSpeed}-\text{GPS_Speed})/\text{RearTireSpeed}*100$$

You can plug this into any data file that has driven wheel speed data and either a non-driven wheel speed or GPS_Speed, of course the formula channel names may need to be adjusted.



4 **Q:** What is the measure that we want to focus on the most?

A: [Answered live at 9:30]

5 **Q1:** Is the noise in the rpm grip?

A: [Answered live at 26:05]

6 **Q:** Do you guys use any gps data for chassis adjustments?

A: [Answered live at 34:30]

7 **Q:** Do the drivers watch lap times to get instant feedback as to what works for Lap times?

A: [Answered live at 35:40]

8 **Q:** Sound like yaw might be a good feature

A: Yaw and magnetometers would do wonders! Luckily they are all on board sensors to use!

9 **Q:** Is the gsum an useful tool in oval data analysis ? And the friction circle ?

A1: [Answered live at 37:45]

10 **Q:** Are the drivers typically talking to the pits live?

A: [Answered live at 39:30]

11 **Q:** Are the sensors mounted in the car straight or canted for the slide / huge slip angles?

A: Acc / Gyro are typically 'zero'd' to their mounting position in the vehicle.

12 **Q:** On a small oval, can the wi-fi reach the car from the pits?

A: Generally not, but if it can it would be a very low signal.

13 **Q:** Is EFI legal?

A: [Answered live at 46:30]

14 **Q:** What about braking going into the corners?

A: [Answered live at 49:10]