

Weary traveller thou shall not pass this point as the quiz is ahead, don't spoil it for yourself and I'll be upset 😭



Really this is the last warning mate



QUIZ TIME 🙌 🎉 🎆

- No cheating and you will mark it yourself!
- You can work alone or in pairs!
- Just type your answers or write them down!
- Winner gets glory and a chocolate prize!
- We will start easy and get harder...

Question 1

- What are the three *main* streams from HLT2?

Question 2

- To run DaVinci in Run 3 we need two files a python file and a what...?

Question 3

- What are the name of the functions that calculate the variables to put in our root files?

Question 4

- What do DOCA and DIRA stand for and what does $\cos(\text{DIRA}) \sim 1$ mean?

Question 5

- True or False - Ghost tracks are scary?

Question 6

- What do TIS, TOS and TOB stand for?

Question 7

- In MC truth matching, what does a background category of 0 represent?

Question 8

- If I have F.PID_K this is a measure of the kaon hypothesis with respect to which other particle mass hypothesis?

Question 9

- Can you name all 7 variables that are provided in the functor collection called “Kinematics”?

Question 10

- What type of track can be reconstructed from the VELO to the SciFi?
- What about just the UT and SciFi?

Question 11

- What is the `input_raw_format` for a `dst` file?

Question 12

- What are DD4HEP and det-desc?

Question 13

- What does DTF stand for?

A = Decay Transformation Fitter

B = Decay Tree Fitter

C = Desperately Tracking Fermions

D = Definitely Too Frustrating

Question 14

- True or False?

We have TIS, TOS and TOB but can we have TISTOS at the same time?

Question 15

- I'm worried these might be too easy so pick a random number between 0 and 50...

ANSWER TIME



Question 1

- What are the three *main* streams from HLT2?

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Full stream, Turbo, Calibration (1 point each)

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YAML file (1 point)

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ThOr Functors! (or just functors is fine!) (1 point)

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Distance Of Closest Approach (1 point)

Direction Angle (1 point)

$\cos(\text{DIRA}) \sim 1$ = More likely to be B candidate (Momentum pointing back to PV) (1 point)

Question 5

- True or False - Ghost tracks are scary?

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True - We don't want them! (1 point)

Question 5

- True or False - Ghost tracks are scary?

True - We don't want them! (1 point)

False - We have methods to deal with them (1 point)

EVERYONE gets a point unless you didn't write true or false...

Question 6

- What do TIS, TOS and TOB stand for?

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Trigger Independent Signal (1 point)

Trigger On Signal (1 point)

Trigger On Both (1 point)

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Pure signal! (1 point)

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Pion mass hypothesis (1 point)

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Mass, P, PT, PX, PY, PZ, Energy (1 point each)

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Long track (1 point)

Downstream track (1 point)

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0.5 (1 point)

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Software framework that the detector model is built in (or words to that effect)

(1 point)

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B = Decay Tree Fitter (1 point)

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TRUE (1 point)

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23 - No bias I used a random number generator ! (1 point)

Results!

- If I can count it should be out of 28?

THE END

- Thanks so much for following along!
- I hope it has been useful and you can look back at the gitlab and the slides in the future!
- Best of luck for your analysis/work and welcome to LHCb !!

