World Wide Data Day Videoconference Guide for Moderators, Teachers, and Tutors

This sheet is to help guide preparation of the W2D2 videoconference. Please refer to the Videocons page of the W2D2 site. Vidyo connections are made via the W2D2 Indico page.

Videoconference locations for Moderators:

- CERN, 33-R-16
- Fermilab, WH13XO (Fish Tank)
- CoEPP and Adelaide, determined by moderator

Note: A QuarkNet staff member will connect to each videoconference to assist the moderator.

Videoconference Plan:

Part	Time*	Activity
0	5 min prior to start	Test connections, address problems
1	START	Introductions and Greetings
2	5 min after start	Student comments and questions on measurement
3	10 min after start	Moderators discuss overall results
4	15 min after start	Q&A
5	30 min after start	end

** Times are flexible (except start) and not all videoconferences will take the full 30 minutes.*

Moderators should:

- (Part 0) Arrive at the videoconference room and connect to Vidyo 10 minutes before START time (please see the schedule). Videoconference equipment should be available there. Bring a laptop anyway.
- (Part 0) Check to be sure each group has a good Vidyo connection. Advise them if their connection is not very good.*
- (Part 1) Introduce yourselves and your location at the start of the videoconference.
- (Part 1) Ask 1-2 warm-up questions of the students. These are questions than can be answered by a show of hands, e.g Had you ever heard of “muons” before World Wide Data Day?
- Ask more questions than make statements.
- Explain when needed but avoid long (>1 min) explanations.

**Typical problems and corrections:*

- Echo. Mute microphone when not speaking.

- Too much ambient noise. Ask students to be very quiet and mute microphone when not speaking.

- Cannot hear. Use powered external speakers. Turn them up!

- Cannot be heard. Speakers should be close to microphone.

- Vidyo freezes up. Restart. If problem persists, it may be bandwidth: disable camera, connect by audio only.

Teachers and Tutors should:

- Stop measurement at least 20 minutes before START, even if not all events are done.
- Prepare students before videoconference (see below).
- Connect to Vidyo 5 min before videoconference, work out any connection issues with moderator.
- Organize students for videoconference. Try to enable as many students as possible to participate directly and individually.

Students prepare before videoconference:

- What they found difficult or confusing in the measurement
- Unusual features or events they found
- Questions about the measurement
- Questions about muons and why they focus on them
- Questions about anything else for Q&A in Part 4.

Questions to ask (after showing combined results):

- Do you see a pattern in values of ϕ? Why do you think this is?
- Do you see a pattern in values of θ? Why do you think this is?
- How are the combined results different from the results from your 50 events?

Discuss what happens in the detector when protons collide: where decay products and other particles go, what the limits of the detector are, etc.