

# RNTuple Feature and Format Assessment Workshop Introduction

RNTuple Format and Feature Assessment  
HEP-CCE / ROOT  
2023-11-06

ROOT

Data Analysis Framework

<https://root.cern>



Welcome to the RNTuple feature and format assessment!  
In this 2-day workshop we will address:

- State of affairs
- Feature and format assessment
- Development Schedule



Agenda:

<https://indico.cern.ch/event/1303499/>

Zoom:

<https://cern.zoom.us/j/63327261987?pwd=QXI4MWlHbkFxbTVoV3d6WVpvc3NGQT09>

Live notes:

<https://codimd.web.cern.ch/ELBD2psuTdi92tU0wuF66A#>



- This workshop should **define the path to "RNTuple 1.0"**
  - "RNTuple 1.0" means fixing the binary format
    - Future changes will be backward compatible and, as much as possible, forward compatible
  - The RNTuple API moves out of `ROOT::Experimental`
  - Cornerstone of ROOT 7
- This workshop should ensure that **critical experiment needs are covered**



- RNTuple is planned to become **production** ready by the end of **2024**
- In this workshop, we would like to progress on the following **key questions**
  - What do the **experiments expect** to see / get done in order to **entrust their data** to RNTuple?
  - What is the **experiment schedule** for the RNTuple **deployment** to production?
  - What is the **critical**, initial **feature set** required in a first RNTuple production version?
  - To what **degree** is ROOT supporting **TTree writing** after RNTuple is deployed?
- We would also like to kick off
  - An RNTuple **interface review**
  - A discussion on **meta-data** for final data analysis
  - **Experiment liaison** for the large-scale validation efforts



- Today and tomorrow in Prévessin, building 774
  - Map: <https://cern.ch/yefzw>
  - Auditorium 774/R-013 Monday (possibility to move to meeting room 774/1-079 after 10h30)
  - Tuesday afternoon: meeting room 774/1-079
  - Coffee: at the cafeteria in this building
- Cheese fondue tonight at Auberge de Satigny (19h30)
  - <https://auberge-de-satigny.ch/>
- Shuttle Meyrin ↔ Prévessin (Circuit 5)
  - <https://sce-dep.web.cern.ch/mobility/shuttle/circuit-5>



# Shuttle Prévessin Meyrin

## 5 Circuit 5 Prévessin

Monday - Friday (except CERN official holidays)  
Lundi - vendredi (excepté lors des congés officiels CERN)



### MORNING

<del>07:40</del>	07:49	07:54	08:00	08:01	08:04	08:05	08:10	08:13	<del>08:17</del>
<del>08:05</del>	08:29	08:33	08:39	08:40	08:43	08:44	08:49	08:52	<del>08:55</del>
<del>09:00</del>	09:04	09:08	09:14	09:15	09:18	09:19	09:24	09:27	<del>09:30</del>

### LUNCH TIME

<del>11:30</del>	11:34	11:38	11:44	11:45	11:48	11:49	11:54	11:57	<del>12:00</del>
<del>13:30</del>	13:39	13:43	13:49	13:50	13:53	13:54	13:59	14:02	<del>14:05</del>

### AFTERNOON

<del>16:40</del>	16:24	16:28	16:34	16:35	16:38	16:39	16:44	16:47	<del>16:50</del>
<del>17:00</del>	17:04	17:09	17:15	17:16	17:19	17:20	17:25	17:28	<del>17:32</del>
<del>17:40</del>	17:49	17:54	18:00	18:01	18:04	18:05	18:10	18:13	<del>18:17</del>

- Hop on at building 39 (replaces the main building stop)  
<https://cern.ch/8zhk8>



- Leave at building 874 (CCC)  
<https://cern.ch/pdgsa>

