

AWAKE Collaboration Meeting

CERN, 15 – 17 October 2025

Edda Gschwendtner, CERN

AWAKE are First to Start LS3 Activities



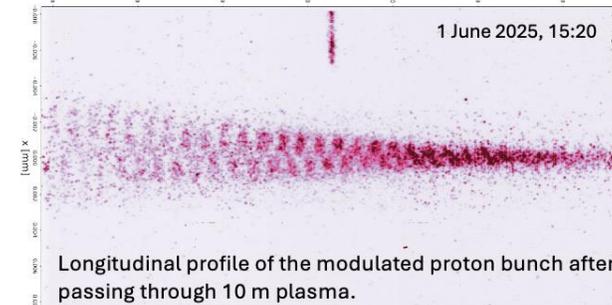
1 June 2025:

The AWAKE team celebrating the successful end of the AWAKE proton run 2025.



1 June 2025, 15:20 :

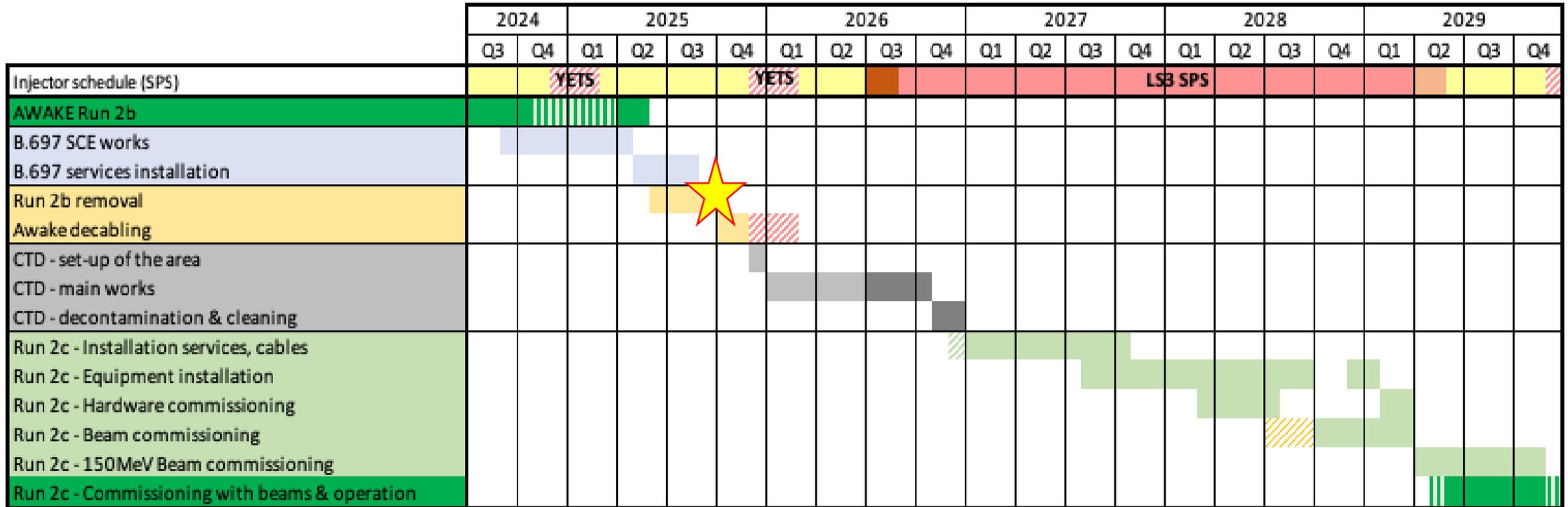
Last proton bunch extraction from the SPS to AWAKE:



Major modifications for AWAKE from now until end of LS3 (SPS):

- 1) CNGS target area dismantling
- 2) Design, installation and commissioning of the substantially upgraded AWAKE experiment

AWAKE Master Schedule



Enormous progress since the last AWAKE Collaboration Meeting!

Agenda

Wed, 15 Oct 2025

Welcome	Edda Gschwendtner
31/3-004 - IT Amphitheatre, CERN	13:00 - 13:15
Introduction	Patric Muggli
31/3-004 - IT Amphitheatre, CERN	13:15 - 13:30
Saturation of self-modulation radius	Arthur Clairembaud
31/3-004 - IT Amphitheatre, CERN	13:30 - 13:45
Light as a diagnostics for wakefields	Jan Aaron Mezger
31/3-004 - IT Amphitheatre, CERN	13:50 - 14:05
Reproducibility of SM from light signal	Arthur Clairembaud
31/3-004 - IT Amphitheatre, CERN	14:10 - 14:25
Seeding of SM at high plasma density with cut e-bunch	Nikita Zena van Gils
31/3-004 - IT Amphitheatre, CERN	14:30 - 14:45
Coffee/Tea break	
31/3-009 - IT Amphitheatre Coffee Area, CERN	14:50 - 15:05
Schlieren measurements of plasma radius with and without wakefields	Lucas Alexei Ranc
31/3-004 - IT Amphitheatre, CERN	15:05 - 15:20
Energy gain with step in plasma density	Fern Elizabeth Pannell
31/3-004 - IT Amphitheatre, CERN	15:25 - 15:40
Microbunches and phase velocity of the wakefields	Helena Jaworska
31/3-004 - IT Amphitheatre, CERN	15:45 - 16:00
PWFA Basics	Marlene Turner
31/3-004 - IT Amphitheatre, CERN	16:15 - 17:15

Run 2b results

Tutorial PWFA Basics

Thu, 16 Oct 2025

Energy deposition	Carolina Amoedo
6/R-012 - conference room, CERN	08:45 - 08:57
vacuum gap	Vlada Yarygova
6/R-012 - conference room, CERN	09:00 - 09:12
Counter-propagating RIF	Konstantin Lotov
6/R-012 - conference room, CERN	09:15 - 09:27
Witness alignment tolerances	Dr Thomas Cunningham Wilson
6/R-012 - conference room, CERN	09:30 - 09:42
Run 2c working point	John Patrick Farmer
6/R-012 - conference room, CERN	09:45 - 10:10
Run 2c tolerances	Mariana Moreira
6/R-012 - conference room, CERN	10:15 - 10:27
Coffee break	
B6 cafeteria, CERN	10:30 - 11:00
Accelerator's experiments to probe beam instabilities in blazars' pair jets	Gianluca Gregori
40/S2-B01 - Salle Bohr, CERN	11:00 - 12:00
Progress towards CNGS target area dismantling	Ans Pardons
6/R-012 - conference room, CERN	13:30 - 13:50
AWAKE Run 2c laser beam lines design, synchronization and controls	Eduardo Granados
6/R-012 - conference room, CERN	13:55 - 14:10
Results on electron production with the copper cathode	Giulia Tenasini
6/R-012 - conference room, CERN	14:15 - 14:25
Beam lines update	Eleonora Belli
6/R-012 - conference room, CERN	14:30 - 14:40
Update on the injection region	Michele Bergamaschi
6/R-012 - conference room, CERN	14:45 - 15:00
Update on OSR diagnostics for emittance measurements	Debdeep Ghosal
6/R-012 - conference room, CERN	15:05 - 15:15
Run 2c beam instrumentation: towards specifications	Collette Pakuza
6/R-012 - conference room, CERN	15:20 - 15:35
Discussion	
6/R-012 - conference room, CERN	15:40 - 16:00
Coffee Break	
B6 cafeteria, CERN	16:00 - 16:15
Collaboration Board	

Simulations

Group Photo

CERN ATS Seminar

Run 2c

Collaboration Dinner



Fri, 17 Oct 2025

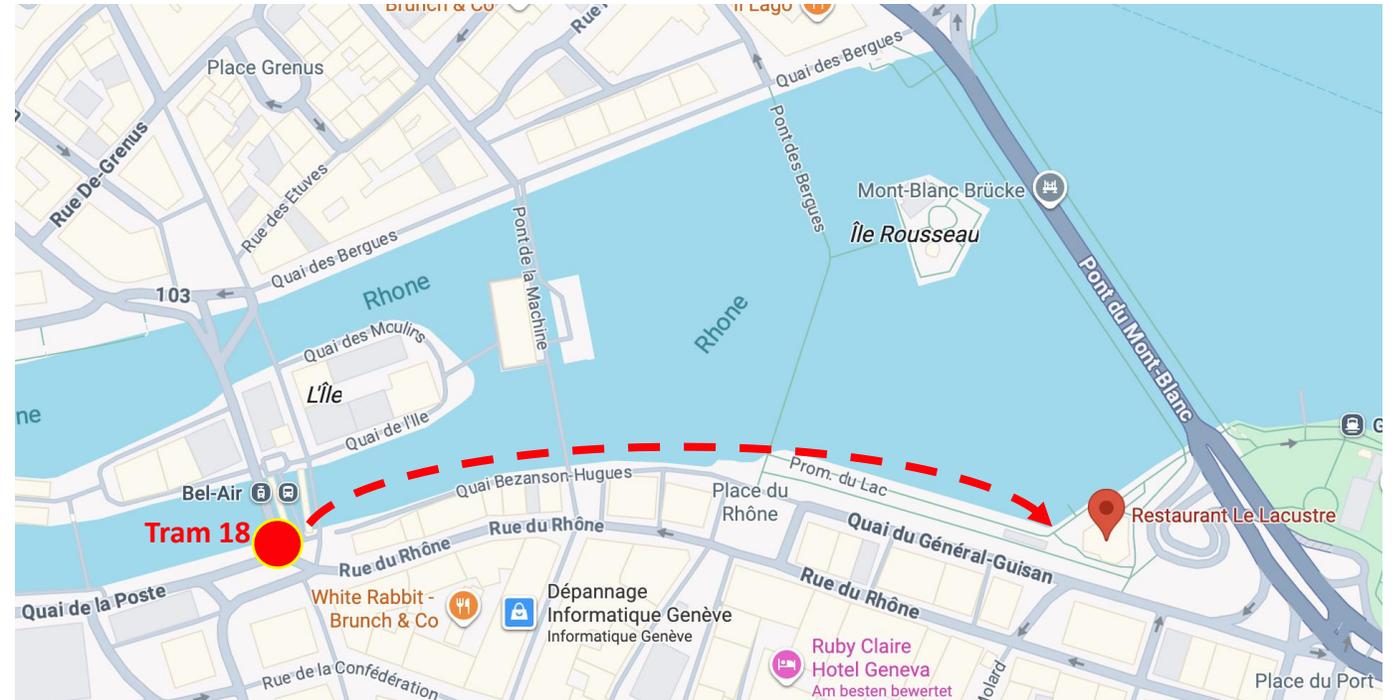
Results from single shot EO bunch length measurements at CLEAR	Samuel Norman
6/2-024 - BE Auditorium Meyrin, CERN	09:30 - 09:40
Electron CChDR, update from CLEAR tests	Jack McGunigal
6/2-024 - BE Auditorium Meyrin, CERN	09:45 - 09:55
Timing and synchronisation for Run 2c	Joshua Thomas Gregory
6/2-024 - BE Auditorium Meyrin, CERN	10:00 - 10:10
News from the run 2c electron spectrometer	
6/2-024 - BE Auditorium Meyrin, CERN	10:15 - 10:25
Reserve	
6/2-024 - BE Auditorium Meyrin, CERN	10:30 - 10:40
Coffee break	
B6 cafeteria, CERN	10:45 - 11:00
Laser plasma channel length estimates	Gábor Demeter
6/2-024 - BE Auditorium Meyrin, CERN	11:00 - 11:15
Update of the scalable plasma source program and plans	Alban Sublet
6/2-024 - BE Auditorium Meyrin, CERN	11:20 - 11:35
Discussion	
6/2-024 - BE Auditorium Meyrin, CERN	11:40 - 12:00
Report from the Publication Committee	Dr Dr. Guoxing Xia
6/2-024 - BE Auditorium Meyrin, CERN	12:00 - 12:15
Summary from the Collaboration Board	Allen Caldwell
6/2-024 - BE Auditorium Meyrin, CERN	12:15 - 12:30
Close-out	
6/2-024 - BE Auditorium Meyrin, CERN	12:30 - 12:45

Run 2c

Collaboration Dinner



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- Take the tram 18 from CERN to Bel-Air
- walk to Le Lacustre