

# Welcome to the strong2020 workshop on « fixed target experiments at LHC »




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# Useful links

FTE@LHC workshop <https://indico.cern.ch/event/1222068/>

Zoom link [zoom link](#)

Quarkonia as Tools workshop <https://indico.cern.ch/event/1213416/>



## Fixed target experiments at LHC - strong2020 workshop

5–7 Jan 2023  
Centre Paul Langevin  
Europe/Zurich timezone

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The **STRONG-2020** work package "Fixed target experiments at LHC" organizes a workshop to review the activities on the topic.

The **STRONG-2020** project brings together many of the leading research groups and infrastructures involved today in studying the strong interaction in Europe. Also, it exploits the innovation potential in applied research by developing detector systems with applications beyond fundamental physics, *e.g.*, for medical imaging and information technology.

The FTE@LHC workshop will take place at Aussois in France before the [Quarkonia as Tools workshop](#). We will have in total four sessions on physics, phenomenology and hardware.

Previous FTE@LHC workshops took place in [2022](#), [2021](#) and [2019](#).

[Zoom information:](#)  
[zoom link](#)

# Timetable

Room: Le Râteau, Centre Paul Langevin

## Timetable

<	Thu 05/01	Fri 06/01	Sat 07/01	All days	>
<div>Print PDF Full screen Detailed view Filter</div>					
17:00	<b>Welcome and introduction</b> <i>Le Râteau, Centre Paul Langevin</i>				17:00 - 17:10
	<b>QGP physics results overview</b> <i>Le Râteau, Centre Paul Langevin</i>				Chiara Oppedisano <a href="#">@</a> 17:15 - 17:45
	<b>Fixed targets at the LHC: proposals and challenges</b> <i>Le Râteau, Centre Paul Langevin</i>				Massimiliano Ferro-Luzzi 17:45 - 18:15
18:00	<b>Coffee Break</b> <i>Le Râteau, Centre Paul Langevin</i>				18:15 - 18:45
	<b>Theory predictions for charmed meson production in fixed-target experiments at the LHC and connections with astrophysical applications</b> <i>Maria Vittoria Garzelli</i>				
19:00	<b>Spin physics overview at COMPASS</b> <i>Le Râteau, Centre Paul Langevin</i>				Dr Bakur Parsamyan 19:15 - 19:45

Bar opening hour: 12h30-14h15 and 16h00-19h45 (and also after dinner): ticket for coffee available  
At 12:30 and 20:00 sharp, we have to go to the Aussois center restaurant

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<span>&lt;</span> Thu 05/01 <b>Fri 06/01</b> Sat 07/01 <span>&gt;</span> All days		
<span>Print</span> <span>PDF</span> <span>Full screen</span> <span>Detailed view</span> <span>Filter</span>		
09:00	<b>Status of the SMOG2 system at LHCb</b> Le Râteau, Centre Paul Langevin	Saverio Mariani 09:00 - 09:30
	<b>Crystal implementation in IR2</b> Le Râteau, Centre Paul Langevin	Dr Marcin Patecki 09:30 - 10:00
10:00	<b>Status of the ALICE experiment</b> Le Râteau, Centre Paul Langevin	Cynthia Hadjidakis 10:00 - 10:30
	<b>Coffee Break</b> Le Râteau, Centre Paul Langevin	10:30 - 11:00
11:00	<b>Towards an LHC test stand for double-crystal fixed-target experiments</b> Le Râteau, Centre Paul Langevin	Kay Dewhurst 11:00 - 11:30
	<b>Status of the SELDOM project</b> Le Râteau, Centre Paul Langevin	Nicola Neri 11:30 - 12:00
12:00		

16:00	<b>Antiproton production studies in ALICE</b> Le Râteau, Centre Paul Langevin	Charlotte Van Hulse 16:15 - 16:45
	<b>Antiproton production in fixed target at LHCb</b> Le Râteau, Centre Paul Langevin	Chiara Lucarelli 16:45 - 17:15
17:00	<b>Open charm production studies in ALICE</b> Le Râteau, Centre Paul Langevin	Dr Md Rihan Haque 17:15 - 17:45
	<b>Coffee Break</b> Le Râteau, Centre Paul Langevin	17:45 - 18:15
18:00	<b>Quarkonium rapidity distributions via matching of NLO and High-Energy Factorisation</b> Le Râteau, Centre Paul Langevin	Dr Maxim Nefedov 18:15 - 18:45
	<b>Double <math>j/\psi</math> production</b> Le Râteau, Centre Paul Langevin	Alice Colpani Serri 18:45 - 19:15
19:00	<b>UPC in fixed target mode - discussion</b> Le Râteau, Centre Paul Langevin	Jean-Philippe Lansberg et al. 19:15 - 19:45

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<div>Print PDF Full screen Detailed view Filter</div>					
09:00	<b>The study of cold nuclear matter effects in charmonia production in <math>\pi</math>-A collisions with COMPASS</b>				<i>Anisa Khatun</i>
	<i>Le Râteau, Centre Paul Langevin</i>				09:00 - 09:30
	<b>Heavy Ion results in fixed target mode at LHCb</b>				<i>Sara Sellam</i>
	<i>Le Râteau, Centre Paul Langevin</i>				09:30 - 10:00
10:00	<b>Status of the LHCspin project</b>				<i>Pasquale Di Nezza</i>
	<i>Le Râteau, Centre Paul Langevin</i>				10:00 - 10:30
	<b>Coffee Break</b>				
	<i>Le Râteau, Centre Paul Langevin</i>				10:30 - 11:00
11:00	<b>Interaction of gases and coating</b>				<i>David Mate Parragh</i>
	<i>Le Râteau, Centre Paul Langevin</i>				11:00 - 11:30
	<b>Automated perturbative cross section computations for asymmetric nucleus+nucleus reactions using the MadGraph5_aMC@NLO framework</b>				
	<i>Daniel Kikola</i>				
12:00					

# STRONG 2020 annual workshop and extension

<http://www.strong-2020.eu>

STRONG2020 annual workshop at CERN, on 20-22 November 2023 until 30 November 2023

STRONG2020 project extension: until 30 November 2023

New request for additional 8 month extension (mainly for TNA such as CERN)

Enjoy the workshop!