



2020



ALICE

ALICE Collaboration
CERN LHC Point

ALICE at the ALICE 3: The Heavy-Ion Experiment

ALICE (A Large Ion Collider Experiment) is a heavy-ion experiment at the Large Hadron Collider (LHC) designed to explore the properties of the quark-gluon plasma (QGP) created in ultra-relativistic heavy-ion collisions. The experiment uses a central detector system with a tracking system, a particle identification system, and a calorimeter system. The primary mission of ALICE is to study the properties of the QGP and the transition from a hadronic state to a deconfined state of quarks and gluons. The experiment is designed to operate at the LHC, which is the world's largest and most powerful particle accelerator.

By analyzing the data from heavy-ion collisions and comparing them with data from proton-proton collisions, ALICE provides insights into the emergence of hadronic matter from the quark-gluon plasma. The experiment is designed to operate at the LHC, which is the world's largest and most powerful particle accelerator.

The ALICE Collaboration, consisting of more than 1000 scientists from 36 countries, is currently operating the experiment. The experiment is designed to operate at the LHC, which is the world's largest and most powerful particle accelerator. The experiment is designed to operate at the LHC, which is the world's largest and most powerful particle accelerator.

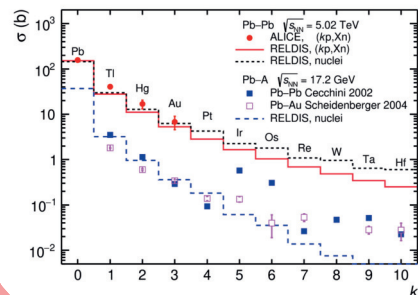
In early July 2025, ALICE recorded the first heavy-ion collisions at the LHC. The experiment is designed to operate at the LHC, which is the world's largest and most powerful particle accelerator. The experiment is designed to operate at the LHC, which is the world's largest and most powerful particle accelerator.



JAN 2016

Alchemy at the LHC

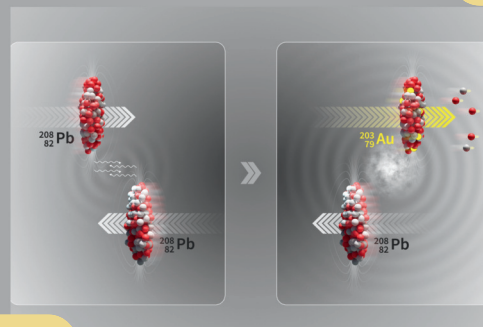
ALICE observes the conversion of lead nuclei into gold nuclei in ultraperipheral (near-miss) collisions at the LHC.



17B-606626



ALICE



JAN 2026

	Mon	Tues	Wed	Thurs	Friday	Saturday	Sunday
1	cern closure		1	2	3	4	
2	5	6	7	8	9	10	11
3	12	13	14	15	16	17	18
4	Alice mini week						
	19	20	21	22	23	24	25
5	SQM Approvals						
	26	27	28	29	30	31	



ALICE

f e b r 2 u 0 a 2 r 6 Y

ALICE ITS3 upgrade

The Inner Tracking System upgrade uses large monolithic CMOS pixel sensors $2,6 \times 10$ cm stitched and gently bent into cylindrical layers.



ALICE



f e b r u a r y

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5							1
6	ALICE 3 days 2			4	5	6	7
		3					8
7	9	10	11	12	13	14	15
8	Alice Mini week			19	20	21	22
	16	17	18				
9	Alice week MUOn					28	
	23	24	25	26	27		



ALICE

M a r 2 c 0 h 2 6

ALICE Thesis Award 2025

Dedicated to the memory of
KarŠa rík (1953–2024), the
2025 ALICE Thesis Award
winners were honoured by the
Collaboration for their
outstanding contributions.



March 2016

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9							1
10	LHCC SQM Follow-up 2 3 4			5	6	7	8
11	SQM Follow-up 9 10		11	12	13	14	15
12	SQM Rehearsal 16 17 18 19 20					21	22
13	23	24	25	26		28	29
14	Alice mini week 30 31						

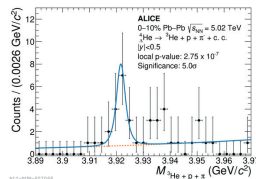


ALICE

APR 2026

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+ < 3& 5+ & / , 82 f ^ m

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7& \$+ 1 , 68& 6 # < 5& \$216758\$7 , 1 (, 76
%& \$! < , 172 !1 !17, f + & / , 82 f]
18\$ / & 86n !1 !17, 352721n ! 1% !
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ALICE

A l i c e m i n i w e e k					
F _ p b N p m ` e q _ n n p m t _ l q					

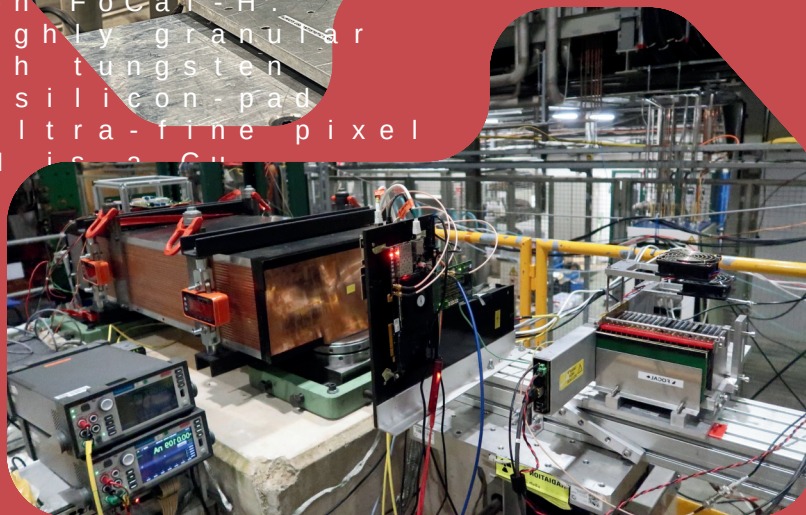
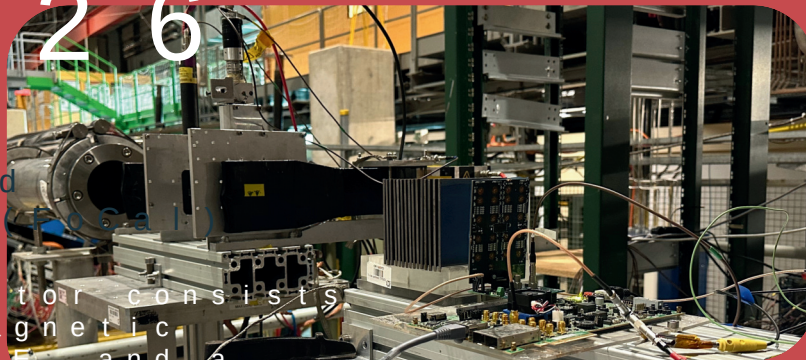


ALICE

ALICE 2026

ALICE Forward Calorimeter

The FoCal detector consists of an electromagnetic section, FoCal-E, and a hadronic section, FoCal-H. FoCal-E is a highly granular Si-W system with tungsten converters, 18 silicon-pad layers, and 2 ultra-fine pixel layers. FoCal-H is a Cu-scintillator system with copper and scintillator fibres.

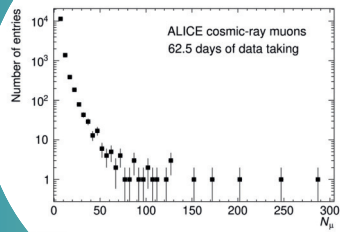


may 2026

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
18					1 closure	2 cern	3
19	Alice 3 week			boards	CB		
	4	5	6	7	8	9	10
20	LHCP Rehearsals				→		
	11	12	13	14 scenes	15 on day	16	17
21	18	19	20	21	22	23	24
22	25 Whit	26 Monday	27	28	29	30	31



ALICE



Cosmic-ray muons (green lines) recorded by ALICE during LHC pauses provide insight into the composition of cosmic rays.



ALICE

june 26

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
23	1 ^{LF} Hard foll	2	3	4	5	6	7
24	8	9	10	11	12	13	14
25	Hard Probes rehearsals				19	20	21
	15	16	17	18			
26	22	23	24	25	26	27	28
27	Alice Mini week 29	30					



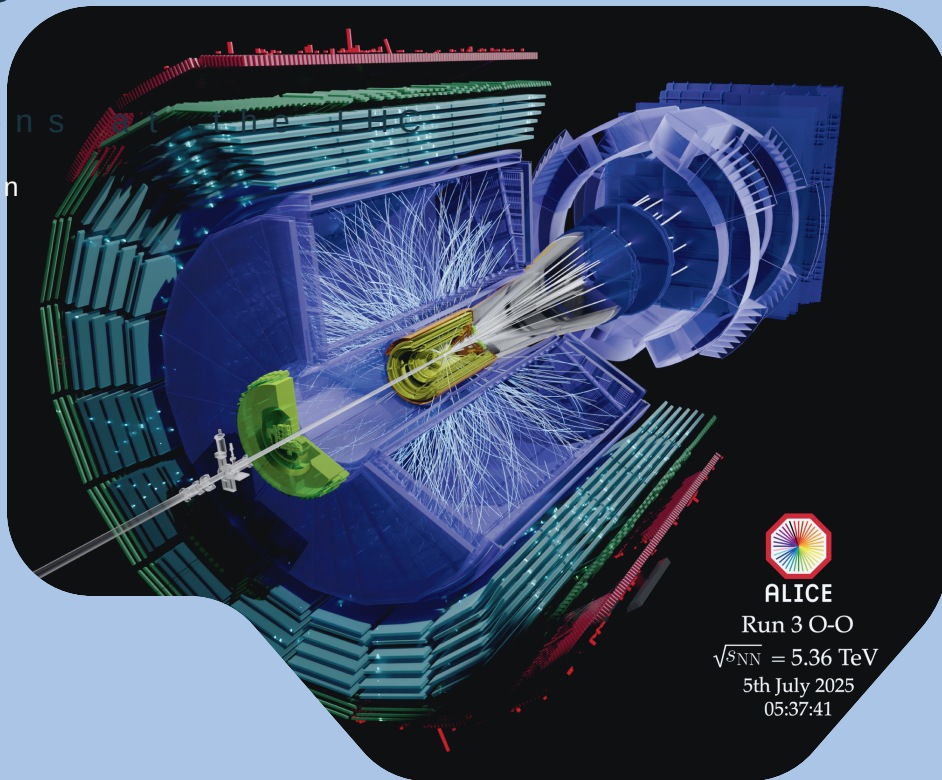
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July 2026

Colliding ions at the LHC

proton - proton
proton - Lead
Xenon - Xenon
proton - Oxygen
Oxygen - Oxygen
Neon - Neon
Lead - Lead

NEW
2025



ALICE



ALICE

Run 3 O-O

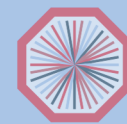
$\sqrt{s_{NN}} = 5.36$ TeV

5th July 2025

05:37:41

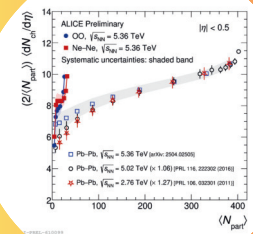
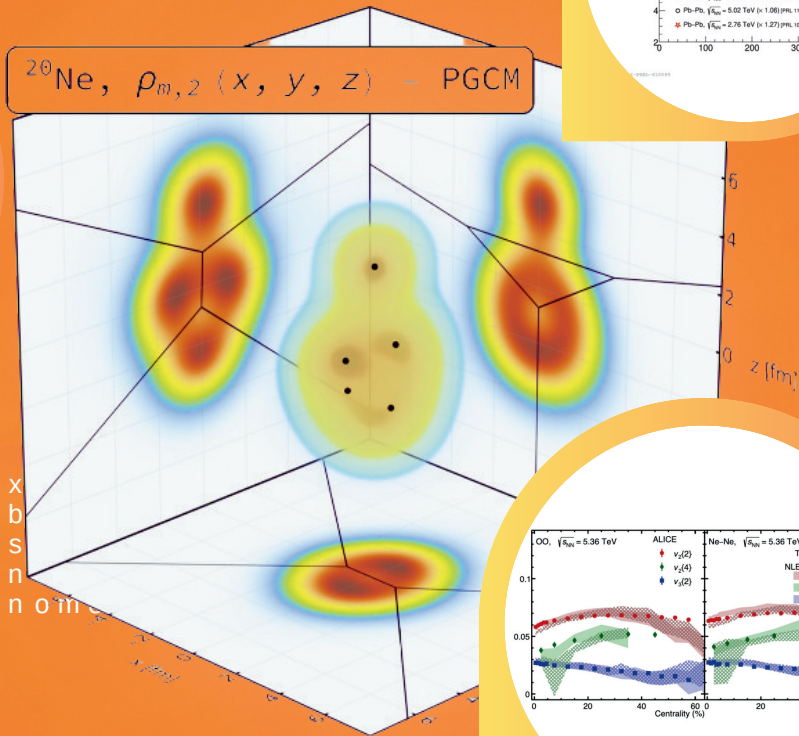
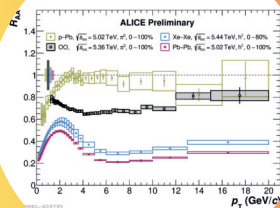
j u l y 2 0 2 6

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27	Alice Mini week		1	2	3	4	5
28	6	7	8	9	10	11	12
29	ichep rehearsals		13	14	15	16	17
30	Alice week			Boards	CB	25	26
31	27	28	29	30	31		



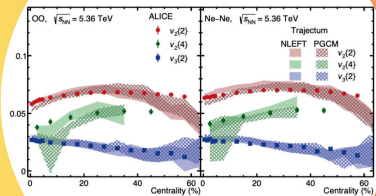
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august 2026



Physics with small ions

In July 2025, oxygen-oxygen collisions at the LHC b proton and lead systems geometry-driven flow an revealing QGP-like phenomena



aug 2016

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
3 1						1	2
3 2	3	4	5	6	7	8	9
3 3	1 0	1 1	1 2	1 3	1 4	1 5	1 6
3 4	1 7	1 8	1 9	2 0	2 1	2 2	2 3
3 5	Alice mini week 2 4 2 5 2 6 2 7 2 8					2 9	3 0
3 6	l h c c 3 1						



ALICE

s e p t e m b e r 2 0 2 6



ALICE 3 Outer Tracking System prototypes

The tracking system for the ALICE 3 upgrade consists of MAPS sensors. This image shows the setup for aircooling strategies for the prototypes: a thermal camera view (left) and the dummy modules equipped with heat exchangers (right).



ALICE



sept 2026 r

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
36	lhcc	1	2	3	4	5	6
37	7	8	9	10 jeune genev	11	12	13
38	Alice upgrade week 14	15	16	17	18	19	20
39	21	22	23	24	25	26	27
40	28	29	30				

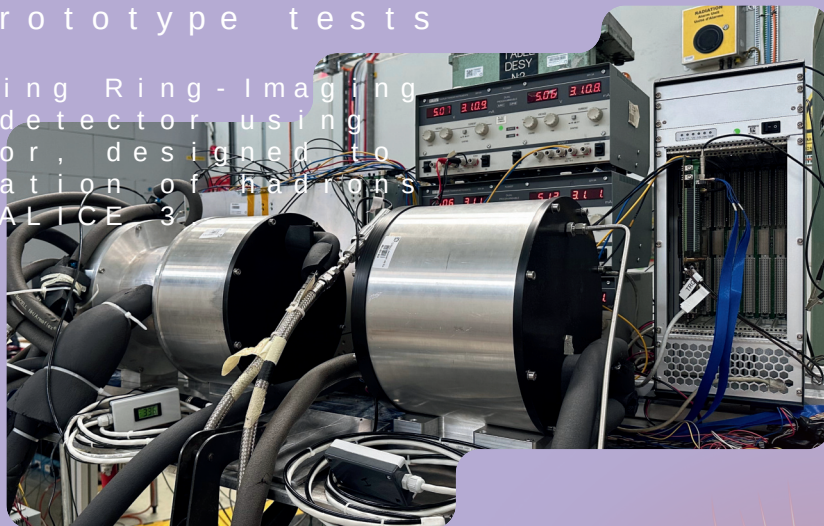


ALICE

o c t 2 0 2 6

ALICE 3 RICH prototype tests

A proximity-focusing Ring-Imaging Cherenkov (RICH) detector using an aerogel radiator, designed to improve identification of hadrons and electrons in ALICE 3.



ALICE



o c t 2 0 2 6

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
4 0				1	2	3	4
4 1	5	6	7	boards 8	9	10	11
4 2	Alice physics week 12	13	14	15	16	17	18
4 3	19	20	21	22	23	24	25
4 4	26	27	28	29	30	31	



ALICE

n o v e m b e r 2 0 2 6

ALICE 3 MID prototype tests:

The Muon Identifier
Detector (MID) test-beam
campaign confirmed that
the chambers can achieve
>95% efficiency for muon
detection in ALICE-3.



n o v e m b e r 2 0 2 6

	M o n d a y	T u e s d a y	W e d n e s d a y	T h u r s d a y	F r i d a y	S a t u r d a y	S u n d a y
4 4							1
4 5	2	3	S & C d a y s			7	8
4 6	9	1 0	1 1	1 2	1 3	1 4	1 5
4 7	l h c c			1 9	2 0	2 1	2 2
4 8	2 3	2 4	2 5	t h a n k s g i v i n g		2 8	2 9
4 9	3 0			2 6	2 7		



ALICE

d e c 2 0 2 6

ALICE 3 TOF
prototype test

Q+& >IF@B] Q,0&f2 C/.+7
iQLC¢
352727<3& !\$+, &9&6
»\X 36 5&62/87, 21n &1'#/.,1(
&\$&//&17 ,%&17, ", \$!7 21
2' 3,216n .!216n !1% 3527216
!7 ,17&50&%, !7&
020&17!k



ALICE

december 2026

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
49	Alice week 1		2	3 boards	4 cb	5	6
50	7	8	9	10	11	12	13
51	14	15	16	17	18	19	20
52	Cern closure					26	27
53	Cern closure						
	28	29	30	31			



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ALICE at Quark M
Frankfurt (6-12)