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# AWAKE Publications

Hello World! This is the central scientific results page of the AWAKE Collaboration, maintained by the AWAKE Publication Committee. For past publications, see <https://awake.cern/publications>

## AWAKE Collaboration Papers

Authors	Title	Journal	Year	DOI/arXiv
S. Gessner, et al. (AWAKE Collaboration)	Evolution of a plasma column measured through modulation of a high-energy proton beam		2020	2006.09991 <a href="#">↗</a>
V. Hafych, et al. (AWAKE Collaboration)	Analysis of Proton Bunch Parameters in the AWAKE Experiment	JINST	2021	DOI <a href="#">↗</a>
P.I. Morales Guzman, et al. (AWAKE Collaboration)	Simulation and experimental study of proton bunch self-modulation in plasma with linear density gradients	PRAB	2021	DOI <a href="#">↗</a>
F. Batsch, et al. (AWAKE Collaboration)	Transition between Instability and Seeded Self-Modulation of a Relativistic Particle Bunch in Plasma	PRL	2021	DOI <a href="#">↗</a>
J. Chappell, et al. (AWAKE Collaboration)	Experimental study of extended timescale dynamics of a plasma wakefield driven by a self-modulated proton bunch	PRAB	2021	DOI <a href="#">↗</a>
F. Braunmüller, et al. (AWAKE Collaboration)	Proton Bunch Self-Modulation in Plasma with Density Gradient	PRL	2020	DOI <a href="#">↗</a>
A. A. Gorn, et al. (AWAKE Collaboration)	Proton beam defocusing in AWAKE: comparison of simulations and measurements	PPCF	2020	DOI <a href="#">↗</a>
M. Turner, et al. (AWAKE Collaboration)	Experimental study of wakefields driven by a self-modulating proton bunch in plasma	PRAB	2020	DOI <a href="#">↗</a>
E. Gschwendtner, et al. (AWAKE Collaboration)	Proton-driven plasma wakefield acceleration in AWAKE	PTRSA	2019	DOI <a href="#">↗</a> , Correction <a href="#">↗</a>
M. Turner, et al. (AWAKE Collaboration)	Experimental Observation of Plasma Wakefield Growth Driven by the Seeded Self-Modulation of a Proton Bunch	PRL	2019	DOI <a href="#">↗</a>
AWAKE Collaboration	Experimental Observation of Proton Bunch Modulation in a Plasma at Varying Plasma Densities	PRL	2019	DOI <a href="#">↗</a>
AWAKE Collaboration	Acceleration of electrons in the plasma wakefield of a proton bunch	Nature	2018	DOI <a href="#">↗</a>
P. Muggli, et al. (AWAKE Collaboration)	AWAKE readiness for the study of the seeded self-modulation of a 400 GeV proton bunch	PPCF	2018	DOI <a href="#">↗</a>
E. Gschwendtner, et al. (AWAKE Collaboration)	AWAKE, The Advanced Proton Driven Plasma Wakefield Acceleration Experiment at CERN	NIMA	2016	DOI <a href="#">↗</a>
A. Caldwell, et al. (AWAKE Collaboration)	Path to AWAKE: Evolution of the concept	NIMA	2016	DOI <a href="#">↗</a>
C. Bracco, et al. (AWAKE Collaboration)	AWAKE: A Proton-Driven Plasma Wakefield Acceleration Experiment at CERN	NPPP	2016	DOI <a href="#">↗</a>
AWAKE Collaboration	Proton-driven plasma wakefield acceleration: a path to the future of high-energy particle physics	PPCF	2014	DOI <a href="#">↗</a>

## Other papers related to AWAKE

Authors	Title	Journal	Year	DOI/arXiv
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V. Khudiakov, A. Pukhov	Optimized laser-assisted electron injection into a quasi-linear plasma wakefield		2021	<a href="#">arXiv:2109.03053</a>
A.A. Gorn, K.V. Lotov	Generation of plasma electron halo by charged particle beam in low density plasma		2021	<a href="#">arXiv:2108.07530</a>
S.-Y. Kim, et al.	Witness electron beam injection using an active plasma lens for beam-driven plasma wakefield accelerators		2021	<a href="#">arXiv:2104.10288</a>
K. Lotov, P. Tuev	Plasma wakefield acceleration beyond the dephasing limit with 400 GeV proton driver	PPCF	2021	<a href="#">DOI</a>
G. Demeter, et al.	Long-range propagation of ultrafast ionizing laser pulses in a resonant nonlinear medium	PRA	2021	<a href="#">DOI</a>
D.A. Cooke, et al.	Measurement and application of electron stripping of ultrarelativistic 208Pb81+	NIMA	2021	<a href="#">DOI</a>
R.I. Spitsyn, K.V. Lotov	Wakefield decay in a radially bounded plasma due to formation of electron halo	PPCF	2021	<a href="#">DOI</a>
L. Verra, et al.	Electron beam characterization with beam loss monitors	PRAB	2020	<a href="#">DOI</a>
R. Agnello, et al.	Application of Thomson scattering to helicon plasma sources	JPP	2020	<a href="#">DOI</a>
B. Williamson, et al.	Betatron radiation diagnostics for AWAKE Run 2	NIMA	2020	<a href="#">DOI</a>
K.V. Lotov, V.A. Minakov	Proton beam self-modulation seeded by electron bunch in plasma with density ramp	PPCF	2020	<a href="#">DOI</a>
A.A. Gorn, et al.	Response of narrow cylindrical plasmas to dense charged particle beams	PoP	2019	<a href="#">DOI</a>
E. Gschwendtner, P. Muggli	Plasma wakefield accelerators	NatRevPhys	2019	<a href="#">DOI</a>
V.A. Minakov, et al.	Accelerating field enhancement due to ion motion in plasma wakefield accelerators	PPCF	2019	<a href="#">DOI</a>
M. Moreira, et al.	Influence of proton bunch parameters on a proton-driven plasma wakefield acceleration experiment	PRAB	2019	<a href="#">DOI</a>
N. Moschuering, et al.	First fully kinetic three-dimensional simulation of the AWAKE baseline scenario	PPCF	2019	<a href="#">DOI</a>
G. Demeter	Propagation of ultrashort resonant ionizing laser pulses in rubidium vapor	PRA	2019	<a href="#">DOI</a>
M. Wing	Particle physics experiments based on the AWAKE acceleration scheme	PTRSA	2019	<a href="#">DOI</a>
V.K. Berglyd Olsen, et al.	Emittance preservation of an electron beam in a loaded quasilinear plasma wakefield	PRAB	2018	<a href="#">DOI</a>
B Buttenschön, et al.	A high power, high density helicon discharge for the plasma wakefield accelerator experiment AWAKE	PPCF	2018	<a href="#">DOI</a>
K.V. Lotov	Stable bunch trains for plasma wakefield acceleration	PPCF	2018	<a href="#">DOI</a>
V. A. Minakov, et al.	Witness emittance growth caused by driver density fluctuations in plasma wakefield accelerators	PoP	2018	<a href="#">DOI</a>
G. Plyushchev, et al.	A rubidium vapor source for a plasma source for AWAKE	JPD	2018	<a href="#">DOI</a>
A.-M. Bachmann, et al.	Schlieren imaging for the determination of the radius of an excited rubidium column	NIMA	2018	<a href="#">DOI</a>

F. Batsch, et al.	Interferometer-based high-accuracy white light measurement of neutral rubidium density and gradient at AWAKE	NIMA	2018	<a href="#">DOI</a>
F. Braumueller, et al.	Novel diagnostic for precise measurement of the modulation frequency of Seeded Self-Modulation via Coherent Transition Radiation in AWAKE	NIMA	2018	<a href="#">DOI</a>
M. Hüther, P. Muggli	Seeding of the self-modulation in a long proton bunch by charge cancellation with a short electron bunch	NIMA	2018	<a href="#">DOI</a>
K.V. Lotov	AWAKE-related benchmarking tests for simulation codes	NIMA	2018	<a href="#">DOI</a>
M. Moreira, et al.	Signatures of the self-modulation instability of relativistic proton bunches in the AWAKE experiment	NIMA	2018	<a href="#">DOI</a>
K. Pepitone, et al.	The electron accelerators for the AWAKE experiment at CERN-Baseline and Future Developments	NIMA	2018	<a href="#">DOI</a>
M. Turner, et al.	A method to determine the maximum radius of defocused protons after self-modulation in AWAKE	NIMA	2018	<a href="#">DOI</a>
B. Williamson, et al.	Simulation study of an LWFA-based electron injector for AWAKE Run 2	NIMA	2018	<a href="#">DOI</a>
K. Rieger, et al.	GHz modulation detection using a streak camera: Suitability of streak cameras in the AWAKE experiment	RSI	2017	<a href="#">DOI</a>
M. Turner, et al.	The two-screen measurement setup to indirectly measure proton beam self-modulation in AWAKE	NIMA	2017	<a href="#">DOI</a>
E. Adli, P. Muggli	Proton-Beam-Driven Plasma Acceleration	RAST	2016	<a href="#">DOI</a>
A. Joulaei, et al.	Laser pulse propagation in a meter scale rubidium vapor / plasma cell in AWAKE experiment	NIMA	2016	<a href="#">DOI</a>
E. Öz, et al.	An accurate Rb density measurement method for a plasma wakefield accelerator experiment using a novel Rb reservoir	NIMA	2016	<a href="#">DOI</a>
K. Pepitone, et al.	The electron accelerator for the AWAKE experiment at CERN	NIMA	2016	<a href="#">DOI</a>
A. Petrenko, et al.	Numerical Studies of Electron Acceleration Behind Self-Modulating Proton Beam in Plasma with a Density Gradient	NIMA	2016	<a href="#">DOI</a>
J.S. Schmidt, et al.	Status of the proton and electron transfer lines for the AWAKE Experiment at CERN	NIMA	2016	<a href="#">DOI</a>
M. Turner, et al.	Indirect Self-Modulation Instability Measurement Concept for the AWAKE Proton Beam	NIMA	2016	<a href="#">DOI</a>
K.V. Lotov	Physics of beam self-modulation in plasma wakefield accelerators	PoP	2015	<a href="#">DOI</a>
K.V. Lotov	Effect of beam emittance on self-modulation of long beams in plasma wakefield accelerators	PoP	2015	<a href="#">DOI</a>
C.Bracco, et al.	Beam studies and experimental facility for the AWAKE experiment at CERN	NIMA	2014	<a href="#">DOI</a>
K.V. Lotov, et al.		PRL	2014	<a href="#">DOI</a>

	Long-Term Evolution of Broken Wakefields in Finite-Radius Plasmas			
K.V. Lotov, et al.	Parameter sensitivity of plasma wakefields driven by self-modulating proton beams	PoP	2014	DOI <a href="#">↗</a>
K.V. Lotov, et al.	Electron trapping and acceleration by the plasma wakefield of a self-modulating proton beam	PoP	2014	DOI <a href="#">↗</a>
E. Öz, P. Muggli	A novel Rb vapor plasma source for plasma wakefield accelerators	NIMA	2014	DOI <a href="#">↗</a>
J. Vieira, et al.	Self-modulation instability of ultra-relativistic particle bunches with finite rise times	PPCF	2014	DOI <a href="#">↗</a>
J. Vieira, et al.	Hosing Instability Suppression in Self-Modulated Plasma Wakefields	PRL	2014	DOI <a href="#">↗</a>
K. V. Lotov	Excitation of two-dimensional plasma wakefields by trains of equidistant particle bunches	PoP	2013	DOI <a href="#">↗</a>

## Conference Proceedings and Presentations

Authors	Title	Conference/Year	Journal/Year	DOI/Link	Slides
E. Senes, et al.	Beam Position Detection of a Short Electron Bunch in Presence of a Longer and More Intense Proton Bunch for the AWAKE experiment	IBIC-2021			pdf <a href="#">↗</a>
L. Verra	AWAKE update and electron bunch seeding of the proton bunch self-modulation in plasma	EAAC-2021			pdf <a href="#">↗</a>
A. Gorn	Ejection of plasma electrons due to interaction of plasma column with long proton beam	EPS-2021	Europh. Conf. Abstr., 2021 <a href="#">↗</a>	link <a href="#">↗</a>	
K. Moon, et al.	Numerical Study of Electron Bunch Seeded Proton Bunch Self-Modulation	EPS-2021	Europh. Conf. Abstr., 2021 <a href="#">↗</a>	link <a href="#">↗</a>	
P.I. Morales Guzman, et al.	PIC Simulations of the Seeded Self-Modulation of a Long Proton Bunch in Plasma Density Gradients	EPS-2021	Europh. Conf. Abstr., 2021 <a href="#">↗</a>	link <a href="#">↗</a>	
L. Verra, et al.	Seeding of proton bunch self-modulation by an electron bunch in plasma	EPS-2021	Europh. Conf. Abstr., 2021 <a href="#">↗</a>	link <a href="#">↗</a>	
C. Davut, et al.	Analytical and numerical characterization of Cherenkov diffraction radiation as a longitudinal electron bunch profile monitor for AWAKE Run 2	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
J. P. Farmer, et al.	Electron witness constraints for AWAKE	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
E. Gschwendtner	AWAKE Run 2 at CERN	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
I. Karpov, M. Gadioux	Mechanism of longitudinal single-bunch instability in the CERN SPS	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
L. Liang, et al.	Study of the electron seeded proton self-modulation using FBPIC	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
L. Liang, et al.		IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	

	Simulation study of electron beam acceleration with non-gaussian transverse profiles for AWAKE Run 2				
K. Moon, M. Chung	Determination of the phase of wakefield driven by a self-modulated proton bunch in plasma	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
P. Muggli for the AWAKE Collaboration	Physics program for AWAKE Run 2	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
A. Perera, et al.	Modelling seeded self modulation of long elliptical bunches in plasma	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
R. Ramjiawan, et al.	Design of the proton and electron transfer lines for AWAKE Run 2c	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
G. Zevi Della Porta, et al.	Preparation for electron-seeding of proton bunch self-modulation in AWAKE	IPAC-2021	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
G. Zevi Della Porta for the AWAKE Collaboration	Recent highlights and plans of the AWAKE experiment	ICHEP-2020	PoS, 2021	DOI <a href="#">↗</a>	
P. Muggli, et al.	Seeding self-modulation of a long proton bunch with a short electron bunch	EAAC-2019	JPCS, 2020	DOI <a href="#">↗</a>	
F. Peña Asmus, et al.	Predicting the Trajectory of a Relativistic Electron Beam for External Injection in Plasma Wakefields	EAAC-2019	JPCS, 2020	DOI <a href="#">↗</a>	
A. Perera, et al.	Stability of elliptical self-modulating long proton bunches in plasma wakefields	EAAC-2019	JPCS, 2020	DOI <a href="#">↗</a>	
P. Muggli for the AWAKE Collaboration	Physics to plan AWAKE Run 2	EAAC-2019	JPCS, 2020	DOI <a href="#">↗</a>	
L. Verra, et al.	Study of external electron beam injection into proton driven plasma wakefields for AWAKE Run2	EAAC-2019	JPCS, 2020	DOI <a href="#">↗</a>	
F. Batsch for the AWAKE Collaboration	Setup and Characteristics of a Timing Reference Signal with sub-ps Accuracy for AWAKE	EAAC-2019	JPCS, 2020	DOI <a href="#">↗</a>	
A.-M. Bachmann, et al.	Determination of the Charge per Micro-Bunch of a Self-Modulated Proton Bunch using a Streak Camera	EAAC-2019	JPCS, 2020	DOI <a href="#">↗</a>	
J. Chappell, et al.	Progress towards a single-shot emittance measurement technique at AWAKE	IPAC-2019	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
D.A. Cooke, et al.	Calibration of the AWAKE electron spectrometer with electrons derived from a partially stripped ion beam	IPAC-2019	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	
V.N. Fedosseev, et al.	Generation and delivery of an ultraviolet laser beam for the	IPAC-2019	JACoW <a href="#">↗</a>	link <a href="#">↗</a>	

	RF-photoinjector of the AWAKE electron beam				
A. Perera, et al.	Seeded self-modulation of transversely asymmetric long proton beams in plasma	IPAC-2019	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
S. Döbert for the AWAKE Collaboration	The Proton Driven Advanced Wake Field Acceleration Experiment (AWAKE) at CERN	LINAC-2018	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	<a href="#">pdf</a> <a href="#">↗</a>
S.Y. Kim, et al.	Study of the Electron Beam Transfer Line for the AWAKE RUN II Experiment at CERN	LINAC-2018	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
S. Gessner for the AWAKE Collaboration	Comparison of fourier signal and error analysis techniques for identifying the self-modulation frequency of a proton bunch	IPAC-2018	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
I. Gorgisyan, et al.	Commissioning of beam instrumentation at the CERN AWAKE facility after integration of the electron beam line	IPAC-2018	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
F. Keeble, et al.	The AWAKE electron spectrometer	IPAC-2018	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
Y. Li, et al.	Amplitude enhancement of the self-modulated plasma wakefields	IPAC-2018	JACoW <a href="#">↗</a> , JPCS, 2018	<a href="#">link</a> <a href="#">↗</a> , DOI <a href="#">↗</a>	
M. Turner for the AWAKE Collaboration	Status and prospects for the AWAKE experiment	IPAC-2018	JACoW <a href="#">↗</a> , JPCS, 2018	<a href="#">link</a> <a href="#">↗</a> , DOI <a href="#">↗</a>	<a href="#">pdf</a> <a href="#">↗</a>
V.K. Berglyd Olsen, et al.	Data Acquisition and Controls Integration of the AWAKE Experiment at CERN	IPAC-2017	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
E. Gschwendtner for the AWAKE Collaboration	Starting Up the AWAKE Experiment at CERN	IPAC-2017	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
S. Mazzoni, et al.	Beam Instrumentation Developments for the Advanced Proton Driven Plasma Wakefield Acceleration Experiment at CERN	IPAC-2017	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
M. Turner, et al.	Upgrade of the Two-Screen Measurement Setup in the AWAKE Experiment	IPAC-2017	JACoW <a href="#">↗</a> , JPCS, 2017	<a href="#">link</a> <a href="#">↗</a> , DOI <a href="#">↗</a>	
J.S. Schmidt, et al.	AWAKE Proton Beam Commissioning	IPAC-2017	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
V.K. Berglyd Olsen, et al.	Loading of Wakefields in a Plasma Accelerator Section Driven by a Self-Modulated Proton Beam	NAPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
A. Caldwell for the AWAKE Collaboration	AWAKE - A Proton Driven Plasma Wakefield Acceleration Experiment at CERN	NAPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	<a href="#">pdf</a> <a href="#">↗</a>
P. Muggli for the AWAKE Collaboration	Progress Toward an Experiment at AWAKE	NAPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
N. Savard, et al.	Effect of Proton Bunch Parameter Variation on AWAKE	NAPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
M. Turner, et al.	Proton Beam Defocusing as a Result of Self-Modulation in	NAPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	



	Plasma				
S. Döbert	Ultra-Short Bunch Electron Injector for AWAKE	LINAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	<a href="#">pdf</a> <a href="#">↗</a>
O. Mete Apsimon	S-Band Booster Design and Emittance Preservation for the AWAKE e-Injector	LINAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
E. Adli for the AWAKE Collaboration	Towards AWAKE Applications: Electron Beam Acceleration in a Proton Driven Plasma Wake	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
C. Bracco, et al.	CERN AWAKE Facility Readiness for First Beam	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
H. Damerau, et al.	RF Synchronization and Distribution for AWAKE at CERN	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
L.C. Deacon, et al.	A Spectrometer for Proton Driven Plasma Accelerated Electrons at AWAKE - Recent Developments	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
V. Fedosseev, et al.	Integration of a Terawatt Laser at the CERN SPS Beam for the AWAKE Experiment on Proton-Driven Plasma Wake Acceleration	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
S.Y. Kim, M. Chung	Development of RF System for Measuring Plasma Density Modulation of Proton Beam-driven Plasma Wakefield	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
K. Moon, M. Chung	Numerical Studies of Self Modulation Instability in the Beam-driven Plasma Wakefield Experiments	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
P. Muggli, et al.	AWAKE, the Advanced Proton Driven Plasma Wakefield Acceleration Experiment	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
A.V. Petrenko, et al.	Beam-Plasma Interaction Simulations for the AWAKE Experiment at CERN	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
J.S. Schmidt, et al.	Commissioning Preparation of the AWAKE Proton Beam Line	IPAC-2016	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
V.K. Berglyd Olsen, et al.	Loading of a Plasma-Wakefield Accelerator Section Driven by a Self-Modulated Proton Bunch	IPAC-2015	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
M. Bernardini, et al.	AWAKE: the Proof-of-principle R&D Experiment at CERN	IPAC-2015	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	<a href="#">pdf</a> <a href="#">↗</a>
L.C. Deacon, et al.	Development of a Spectrometer for Proton Driven Plasma Wakefield Accelerated Electrons at AWAKE	IPAC-2015	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
U. Dorda, et al.	Simulations of Electron-Proton Beam Interaction before Plasma in the AWAKE Experiment	IPAC-2015	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
J.T. Moody, et al.	Laser Propagation Effects During Photoionization of Meter Scale Rubidium Vapor Source	IPAC-2015	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
P. Muggli for the AWAKE	The AWAKE Proton-driven Plasma Wakefield Experiment at CERN	IPAC-2015	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	



Collaboration					
P. Muggli et al.	Measuring the Self-modulation Instability of Electron and Positron Bunches in Plasmas	IPAC-2015	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
J.S. Schmidt, et al.	The AWAKE Electron Primary Beam Line	IPAC-2015	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
E. Gschwendtner for the AWAKE Collaboration	AWAKE: Advanced Proton Driven Plasma Wakefield Acceleration Experiment at CERN	LINAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	<a href="#">pdf</a> <a href="#">↗</a>
C. Bracco, et al.	The Challenge of Interfacing the Primary Beam Lines for the AWAKE Project at CERN	IPAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
S. Jolly, et al.	A Spectrometer for Proton Driven Plasma Wakefield Accelerated Electrons at AWAKE	IPAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
E. Gschwendtner, et al.	The AWAKE Experimental Facility at CERN	IPAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
P. Muggli, et al.	Injection of a LWFA Electron Bunch in a PWFA Driven by a Self-modulated-proton-bunch	IPAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
E. Öz, et al.	A Novel Laser Ionized Rb Plasma Source for Plasma Wakefield Accelerators	IPAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
A.V. Petrenko, et al.	Electron Injection Studies for the AWAKE Experiment at CERN	IPAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
R. Tarkeshian for the AWAKE Collaboration	Proton Electron Accelerator at CERN	IPAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
J. Vieira, et al.	Hosing Suppression in the Self-modulated Wakefield Accelerator	IPAC-2014	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
P. Muggli for the AWAKE Collaboration	The AWAKE Proton-Driven Plasma Wakefield Acceleration Experiment at CERN	PAC-2013	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	<a href="#">pdf</a> <a href="#">↗</a>
C. Bracco, et al.	Beam Transfer Line Design for a Plasma Wakefield Acceleration Experiment (AWAKE) at the CERN SPS	IPAC-2013	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
E. Gschwendtner, et al.	Feasibility Study of the AWAKE Facility at CERN	IPAC-2013	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
K.V. Lotov, et al.	Simulation of Self-modulating Particle Beams in Plasma Wakefield Accelerators	IPAC-2013	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
P. Muggli, et al.	Physics of the AWAKE Project	IPAC-2013	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
H. Timko, et al.	Short High-Intensity Bunches for Plasma Wakefield Experiment AWAKE in the CERN SPS	IPAC-2013	JACoW <a href="#">↗</a>	<a href="#">link</a> <a href="#">↗</a>	
R. Tarkeshian, et al.	Proposed Method for High-speed Plasma Density Measurement in Proton-driven Plasma Wakefield Acceleration	AAC-2012	AIP Conf. Proc. 2012	<a href="#">DOI</a> <a href="#">↗</a>	

## AWAKE Status reports

2013 (design report) [↗](#), 2014 [↗](#), 2015 [↗](#), 2016 [↗](#), 2017 [↗](#), 2018 [↗](#), 2019 [↗](#), 2020 [↗](#), 2021 [↗](#)

## Theses (authors are welcome to send links to Konstantin Lotov)

Author	Title	Year	Type/Link
Anna-Maria Bachmann	Self-Modulation Development of a Proton Bunch in Plasma	2021	PhD Thesis <a href="#">↗</a>
Mathias Hüther	Direct Observation of the Hosing Instability of a Long Relativistic Proton Bunch in the AWAKE Experiment	2020	PhD Thesis <a href="#">↗</a>
Mariana Moreira	Influence of proton bunch and plasma parameters on the AWAKE experiment	2017	Master's Thesis <a href="#">↗</a>
Fabian Batsch	Interferometer-based white light measurement of neutral rubidium density and gradient for the AWAKE experiment at CERN	2016	Master's Thesis <a href="#">↗</a>

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