

ILD publications

ILD Papers / Topical Papers

	authors	title		
ILD-PHYS-2020-002	S. Kawada, M. Berggren, J. List	Prospects of measuring the branching fraction of the Higgs boson decaying into muon pairs at the International Linear Collider	submitted to Eur. Phys. J. C	arxiv: 2009.04340
IDR	The ILD concept group	International Large Detector: Interim Design Report	DESY 20-034, KEK 2019-57	arxiv: 2003.01116
ILD-PHYS-2020-001	M. Habermehl, M. Berggren, J. List	WIMP Dark Matter at the International Linear Collider	Phys. Rev. D101 (2020) no.7, 075053	arxiv: 2001.03011
Input to EPPSU2020	The ILD concept group	The ILD detector at the ILC	DESY 19-215	arxiv: 1912.04601
ILD-PHYS-2019-001	H. Baer, M. Berggren, K. Fujii, J. List, S. Lehtinen, T. Tanabe, J. Yan	The ILC as a natural SUSY discovery machine and precision microscope: from light higgsinos to tests of unification	Phys. Rev. D 101 (2020) 9, 095026	arXiv: 1912.06643
ILD-PHYS-2018-001	D. Jeans and G. W. Wilson	Measuring the CP state of tau lepton pairs from Higgs decay at the ILC	Phys. Rev. D98 (2018) no.1, 013007	arXiv: 1804.01241
ILD-PHYS-2017-001	W. Bernreuther et al.	CP-violating top quark couplings at future linear e+e- colliders	Eur. Phys. J. C78 (2018) no.2, 155	arXiv: 1710.06737

ILD Conference Proceedings

Physics Proceedings	speaker/presenter	conference	title
ILD-PHYS-PROC-2020-004	Justin Angiano (Kansas)	LCWS2019 Sendai	Study of WW qq at ILC500 with ILD
ILD-PHYS-PROC-2020-003	Aleksander Filip Zarniecki (Warsaw)	CORFU2019, Corfu	On the physics potential of ILC and CLIC
ILD-PHYS-PROC-2020-002	Yumi Aoki (SOKENDAI)	LCWS2019 Sendai	Study of the hZ coupling at the ILC
ILD-PHYS-PROC-2020-001	Adrian Irlas (LAL)	LCWS2019 Sendai	Production and measurement of e+e-ccbar signatures at the 250 GeV ILC
ILD-PHYS-PROC-2019-012	Swathi Sasikumar (DESY)	EPS-HEP 2019 Ghent	The ILC as a natural SUSY discovery machine and precision microscope: From light higgsinos to tests of unification
ILD-PHYS-PROC-2019-011	Adrian Irlas (LAL)	EPS-HEP 2019 Ghent	Production and electroweak couplings of 3rd generation quarks at the ILC
ILD-PHYS-PROC-2019-010	Yu Kato (Tokyo)	EPS-HEP 2019 Ghent	Search for invisible decays of the Higgs boson at the ILC
ILD-PHYS-PROC-2019-009	Mikael Berggren (DESY)	Lepton-Photon 2019 Toronto	The ILC as a natural SUSY discovery machine and precision microscope: From light higgsinos to tests of unification
ILD-PHYS-PROC-2019-008	Yuichi Okugawa (Tohoku)	Lepton-Photon 2019 Toronto	Production and electroweak couplings of 3rd generation quarks at the ILC
ILD-PHYS-PROC-2019-007	Akimasa Ishikawa (KEK)	Lepton-Photon 2019 Toronto	Search for invisible decays of the Higgs boson at the ILC
ILD-PHYS-PROC-2019-006	Yan Wang (DESY /IHEP)	LCWS2018	Search for Extra Scalars Produced in Association with Muon Pairs at the ILC
ILD-PHYS-PROC-2019-005	Yuto Uesugi (Kyushu)	LCWS2018	Quark charge identification for e+e- to qq study
ILD-PHYS-PROC-2019-004	Yuto Deguchi (Kyushu)	LCWS2018	Study of fermion pair events at the 250 GeV ILC
ILD-PHYS-PROC-2019-003	Yumi Aoki (Sokendai)	LCWS2018	Study of the hZ coupling using e+e- h at the ILC
ILD-PHYS-PROC-2019-002	Mila Pandurovic (Vinca Institute)	LCWS2018	Physics potential for the measurement of (HZ) x BR(H WW) at the 250 GeV ILC
ILD-PHYS-PROC-2019-001	Shin-ichi Kawada (DESY)	LCWS2018	Prospects of measuring Higgs boson decays into muon pairs at the ILC

ILD-PHYS-PROC-2018-010	Ryo Yonamine (Tohoku)	Windows on the Universe	3rd Generation Quark and Electroweak Couplings at the 250 GeV stage of the ILC
ILD-PHYS-PROC-2018-009	Shin-ichi Kawada (DESY)	Windows on the Universe	Study of the Higgs couplings to leptons and Higgs CP Properties at the ILC
ILD-PHYS-PROC-2018-008	Tomohisa Ogawa (Sokendai)	ICHEP 2018	Precision Higgs Measurements at the 250 GeV ILC
ILD-PHYS-PROC-2018-007	Mikael Berrgren (DESY)	ICHEP 2018	The Potential of the ILC for Discovering New Particles
ILD-PHYS-PROC-2018-006	Sviatoslav Bilokin (IPHC)	ICHEP 2018	3rd Generation Quark and Electroweak Boson Couplings at the 250 GeV stage of the ILC
ILD-PHYS-PROC-2018-005	Yan Wang (DESY)	ICHEP 2018	Search for Light Scalars Produced in Association with a Z boson at the 250 GeV stage of the ILC
ILD-PHYS-PROC-2018-004	Daniel Jeans (KEK)	ICHEP 2018	Study of the Higgs couplings to leptons and Higgs CP properties at the ILC
ILD-PHYS-PROC-2018-003	Hiroaki Yamashiro (Kyushu)	LCWS2017	Study of fermion pair productions at the ILC with center-of-mass energy of 250 GeV
ILD-PHYS-PROC-2018-002	Shin-ichi Kawada (DESY)	LCWS2017	Branching ratio measurement of $h \rightarrow \tau^+ \tau^-$ at the ILC
ILD-PHYS-PROC-2018-001	Yang Wang (DESY /IHEP)	LCWS2017	Search for Light Scalars Produced in Association with Muon Pairs for $\sqrt{s} = 250$ GeV at the ILC
ILD-PHYS-PROC-2017-007	Moritz Habermehl (DESY)	13th Rencontres du Vietnam: Exploring the Dark Universe	Searches for dark matter at future high energy lepton colliders
ILD-PHYS-PROC-2017-006	Robert Karl (DESY)	EPS-HEP 2017	Prospects for Electroweak Precision Measurements and Triple Gauge Boson Couplings at a Staged ILC
ILD-PHYS-PROC-2017-005	Sviatoslav Bilokin (LAL)	EPS-HEP 2017	Full simulation study of the process $e^+ e^- \rightarrow b \bar{b}$ at $\sqrt{s} = 250$ GeV at the ILC
ILD-PHYS-PROC-2017-004	Tomohisa Ogawa (Sokendai)	EPS-HEP 2017	Sensitivity to anomalous ZZH couplings at the ILC
ILD-PHYS-PROC-2017-003	Suvi-Leena Lehtinen (DESY)	EPS-HEP 2017	Naturalness and light Higgsinos: why ILC is the right machine for SUSY discovery
ILD-PHYS-PROC-2017-002	Jenny List (DESY)	EPS-HEP 2017	The ILC Potential for Discovering New Particles
ILD-PHYS-PROC-2017-001	Naomi van der Kolk (MPP)	EPS-HEP 2017	Toward Precision Top Quark Measurements in e^+e^- collisions

Technical Proceedings	speaker/presenter	conference	title
ILD-TECH-PROC-2019-001	Frederic Magniette (LLR)	VCI 2019	ILD Silicon-Tungsten Electromagnetic Calorimeter Full Scale Prototype
ILD-TECH-PROC-2018-004	T. Pierre-Emile (LLR)	CHEF 2017	Dead zone analysis of ECAL barrel modules under static and dynamic load
ILD-TECH-PROC-2018-003	J-C. Brient (LLR)	CHEF 2017	Impact on calorimeters design, due to ILC staging at 250 GeV center of mass
ILD-TECH-PROC-2018-002	T. Suehara (Kyushu)	CHEF 2017	Performance study of SKIROC2/A ASIAC for ILD Si-W ECAL
ILD-TECH-PROC-2018-001	V. Balagura (LLR)	CHEF 2017	Technical Instrumentation R&D for ILD ECAL large scale device