

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		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-2020-003	Aleksander Filip Zarnacki (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-cb\bar{c} 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