Basil Schneider

contact Rheinstrasse 63	education 8	& employment
4410 Liestal Switzerland	Nov '14 - now	Postdoctoral Fellow at the ATLAS experiment TRIUMF
+41 (0) 78 710 37 55 basil.schneider@cern.ch	Jan '11 - Jul '14	Ph.D. at the ATLAS experiment Ph.D. Thesis: A general approach to search for supersymmetry at the LHC by combining signal enhanced kinematic regions using the ATLAS detector (Supervisor: Prof. A. Ereditato)
about Swiss citizenship	Sep '08 - Mar '10	Master of Science in Theoretical Physics Master Thesis: The partition function of meromorphic conformal field theories at higher genus (Supervisor: Prof. M. Gaberdiel)
Born 19 th March 1982 languages German (native)	Oct '04 - Sep '08	Bachelor of Science in Experimental Physics Bachelor Thesis: Untersuchung der Cluster-Struktur von Elastomerpartikeln durch Simulation des Aggregationsvorganges und Partikelgrössen mittels dynamic light scattering (Supervisor: Dr. Cornelius Gauer)
English (fluent) French (moderate)	Sep '04	Comprehensive entrance exam Exam at the level of a Matura ETH Zurich
computing Linux	conference	es
C++, Python Root, RooFit, RooStats	Jun '15	USATLAS Workshop at University of Illinois at Urbana-Champaign Speaker: "Supersymmetry in run 2"
Bash, Sed, Awk LAT _E X	May '15	Mitchell Workshop on Collider and Dark Matter Physics Speaker: "Supersymmetry searches in ATLAS"
besides physics Cycling	May '13	1st LHC Physics Conference, Barcelona, Spain ATL-PHYS-SLIDE-2013-350 Poster: "Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in 21 fb ⁻¹ of pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector"
Hiking Music	Jun '12	Swiss Physical Society Speaker: "New Optical receiver modules for the insertable B-Layer at the ATLAS project"
	Jun '11	Physics at LHC, Perugia, Italy Poster: "SUSY Searches at ATLAS in Multilepton Final States with Jets and Missing Transverse Energy"
	Jun '11	Swiss Physical Society Speaker: "Insertable b-Layer: A new layer for the ATLAS detector at CERN"
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teaching

Jan '11 - now	Lab Course	University of Bern
	Supervising and assisting Physics undergrade fundamental experiments in mechanics and experiments in mechanics and experiments.	9
Jan '11 - now	Physics for Biologists Assisting 1 st year Physics course	University of Bern
Jul '11 - now	Private lessons for high-school graduates Private lessons in Mathematics, Statistics and	Interlink Schulberatung GmbH d Physics
2007/2008	Teaching assistant Teaching assistant for environmental science	ETH Zurich students in Calculus

publications

	I am co-author of 302 ATLAS publications; for a full list, see http://inspirehep.net/author/profile/B.Schneider.1 Publications where my contributions are substantial:
Jul '15	First look at proton proton collision data at \sqrt{s} = 13 TeV in preparation for search for squarks and gluinos in events with missing transverse energy
Mar '15	jets, and an isolated electron or muon ATL-PHYS-PUB-2015-02 Expected sensitivity studies for gluino and squark searches using the early LHC 13 TeV Run-2 dataset with the ATLAS experiment
	ATL-PHYS-PUB-2015-00
Jun '14	A general approach to search for supersymmetry at the LHC by combining signal enhanced kinematic regions using the ATLAS detector (PhD thesis CERN-THESIS-2014-05
May '14	Search for supersymmetry in events with four or more leptons in \sqrt{s} = 8 TeV pp collisions with the ATLAS detector arXiv:1405.5086 [hep-ex-
Feb '14	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in \sqrt{s} = 8 TeV pp collisions with the ATLAS detector JHEP04(2014)16
Jun '13	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in 21 fb ⁻¹ of pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATL-PHYS-PROC-2013-14
Mar '13	Search for supersymmetry in events with four or more leptons in 21 fb ⁻¹ of pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATLAS-CONF-2013-03
Mar '13	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in 21 fb ⁻¹ of pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATLAS-CONF-2013-03
Nov '12	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in 13.0 fb ⁻¹ of pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATLAS-CONF-2012-15
Nov '12	Search for Supersymmetry in events with four or more leptons in 13 fb ⁻ pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATLAS-CONF-2012-15.
Aug '12	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in \sqrt{s} = 7 TeV pp collisions with the ATLAS detector Phys.Lett. B718 (2013) 841-85
Nov '11	The ATLAS IBL BOC Demonstrator ATL-INDET-PROC-2011-03
Oct '11	SUSY Searches at ATLAS in Multilepton Final States with Jets and Missing Transverse Energy ATL-PHYS-PROC-2011-20

internal notes

Jul '15	First look at proton proton collision data at \sqrt{s} = 13 TeV in preparation for a
	search for squarks and gluinos in events with missing transverse energy, jets, and an isolated electron or muon ATL-COM-PHYS-2015-718
May '15	ATLAS Large eta task force report ATL-COM-UPGRADE-2015-013
Feb '15	Expected sensitivity of search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at \sqrt{s} = 13 TeV with the ATLAS detector ATL-COM-PHYS-2015-133
Jan '15	Re-interpretations and combinations of electroweak limits in 20.3 fb ⁻¹ pp
D	collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATL-COM-PHYS-2015-011
Dec '13	Search for supersymmetry in events with four or more leptons in \sqrt{s} = 8 TeV pp collisions with the ATLAS detector ATL-COM-PHYS-2013-1621
Oct '13	Search for supersymmetry in events with three leptons and missing transverse momentum in 21 fb ⁻¹ pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector
Jul '13	Search for supersymmetry in events with three leptons and missing transverse momentum in 20.3 fb ⁻¹ pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATL-COM-PHYS-2013-888
Dec '12	Search for Supersymmetry in events with four or more leptons in 20.7 fb ⁻¹ pp collisions at \sqrt{s} = 8 TeV with the ATLAS detectorATL-COM-PHYS-2012-1819
Dec '12	Search for Supersymmetry in events with four or more leptons in 13 fb ⁻¹ pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATL-PHYS-INT-2012-096
Dec '12	Search for supersymmetry in events with three leptons and missing transverse momentum in 13 fb ⁻¹ pp collisions at \sqrt{s} = 8 TeV with the ATLAS detector ATL-PHYS-INT-2012-095
Sep '12	SUSY Searches in the Final States with Three Leptons and Missing Transverse Momentum at ATLAS ATL-PHYS-INT-2012-059

references

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outreach

Nov '13 - now Official ATLAS underground guide

Mar '12 - Mar '13 Masterclasses

Helping high school students performing measurements on real data from LHC $\,$

awards

Mar '15 Faculty award winner of the University of Bern

Award for the best PhD thesis in physics at the University of Bern in the year 2014