

## ATF/ATF2 Papers: Refereed Journals

2020	M. Bergamaschi et al.,	Noninvasive Micrometer-Scale Particle-Beam Size Measurement Using Optical Diffraction Radiation in the Ultraviolet Wavelength Range	Phys.Rev.Applied 13 (2020), 014041.		
	A. Aryshev et al.,	Sub-micron scale transverse electron beam size diagnostics methodology based on the analysis of optical transition radiation source distribution	JINST 15 (2020) no.01, P01020.		
	R. Yang et al.,	Tuning the ultra-low beta* optics at the KEK Accelerator Test Facility 2	Phys. Rev. Accel. Beams 23, 071003, (2020)		
2019	N. Fuster-Martínez et al.,	Beam halo collimation studies and measurements at the Accelerator Test Facility ATF2	Nucl.Instrum.Meth. A917 (2019) 31-42.		
2018	R. Yang et al.,	Evaluation of beam halo from beam-gas scattering at the KEK Accelerator Test Facility	Phys.Rev.Accel.Beams 21 (2018), 051001.		
	R.J. Apsimon et al.,	Design and operation of a prototype interaction point beam collision feedback system for the International Linear Collider	Phys.Rev.Accel.Beams 21 (2018), 122802.		
	R. Kieffer et al., D.R. Bett et al.,	Direct observation of incoherent Cherenkov diffraction radiation in the visible range Compensation of orbit distortion due to quadrupole motion using feed-forward control at KEK ATF	Phys. Rev. Lett. 121, 054802 (2018) Nucl.Instrum.Meth. A895 (2018) 10-18.		
2017	R. Yang et al., R. Kieffer et al., D. Wang et al., S.W. Jang et al.,	Numerical investigation of beam halo from beam gas scattering in KEK-ATF Optical diffraction radiation for position monitoring of charged particle beams Beam halo study on the electron storage ring Development of a Low-Q Cavity-Type Beam Position Monitoring System	J.Phys.Conf.Ser. 874 (2017), 012063. Nucl.Instrum.Meth. B402 (2017) 88-91. Laser Part.Beams 35 (2017) 2, 344-351 IEEE Trans.Nucl.Sci. 64 (2017), 2353-2360.		
	2016	M. Patecki et al., J. Snuverink et al., S. Kuroda et al.,	Probing half $\beta^*y$ optics in the Accelerator Test Facility 2 Measurements and simulations of wakefields at the Accelerator Test Facility 2 ATF2 for Final Focus Test Beam for Future Linear Colliders	Phys.Rev.Accel.Beams 19 (2016), 101001 Phys.Rev.Accel.Beams 19 (2016), 091002 Nucl.Part.Phys.Proc. 273-275 (2016) 225-230	
		A. Faus-Golfe et al., Shan Liu et al.,	Emittance reconstruction from measured beam sizes in ATF2 and perspectives for ILC In vacuum diamond sensor scanner for beam halo measurements in the beam line at the KEK Accelerator Test Facility	Nucl.Instrum.Meth. A819 (2016) 122-138 Nucl.Instrum.Meth. A832 (2016) 231-242	
2015	B. Bolzon et al.,	Very high resolution optical transition radiation imaging system: Comparison between simulation and experiment	Phys.Rev.ST Accel.Beams 18 (2015) 082803		
	R. Apsimon et al.,	Design and performance of a high resolution, low latency stripline beam position monitor system	Phys.Rev.ST Accel.Beams 18 (2015) 032803		
2014	J. Pfingstner et al., L.J. Nevay et al., T. Okugi et al.,	Mitigation of ground motion effects in linear accelerators via feed-forward control Laserwire at the Accelerator Test Facility 2 with Sub-Micrometre Resolution Linear and second order optics corrections for the KEK Accelerator Test Facility final focus beam line	Phys.Rev.ST Accel.Beams 17 (2014) 122801 Phys.Rev.ST Accel.Beams 17 (2014) 072802 Phys.Rev.ST Accel.Beams 17 (2014) 023501		
	E. Marin et al., M. Patecki and R. Tomas G.R. White et al.,	Design and high order optimization of the Accelerator Test Facility lattices Effects of quadrupole fringe fields in final focus systems for linear colliders Experimental Validation of a Novel Compact Focusing Scheme for Future Energy-Frontier Linear Lepton Colliders	Phys.Rev.ST Accel.Beams 17 (2014) 021002 Phys.Rev.ST Accel.Beams 17 (2014) 101002 Phys.Rev.Lett. 112 (2014) no.3, 034802		
	D. Wang et al., Y.I. Kim et al., L. Corner et al., Jacqueline Yan et al.,	Analytical estimation of ATF beam halo distribution Principal Component Analysis of Cavity Beam Position Monitor Signals Laserwire: A high resolution non-invasive beam profiling diagnostic Measurement of nanometer electron beam sizes with laser interference using Shintake Monitor	Chin.Phys.C 38 (2014) 12, 127003 JINST 9 (2014) P02007 Nucl.Instrum.Meth. A740 (2014) 226-228 Nucl.Instrum.Meth. A740 (2014) 131-137		
	Andrei Seryi et al.,	Experimental and theoretical progress of linear collider final focus design and ATF2 facility	Nucl.Instrum.Meth. A740 (2014) 2-5		
	2013	Y. Renier et al.,	Trajectory measurements and correlations in the final focus beam line at the KEK Accelerator Test Facility	Phys.Rev.ST Accel.Beams 16 (2013), 062803	
		A. Heo et al., S. Walston et al.,	Development of an S-band cavity Beam Position Monitor for ATF2 A metrology system for a high resolution cavity beam position monitor system	JINST 8 (2013) P04011 Nucl.Instrum.Meth. A728 (2013) 53-58	
		2012	Y.I. Kim et al., Sha Bai et al.,	Cavity beam position monitor system for the Accelerator Test Facility 2 Mitigating the effects of higher order multipole fields in the magnets of the Accelerator Test Facility 2 at KEK	Phys.Rev.ST Accel.Beams 15 (2012) 042801 Chin.Phys. C36 (2012) 756-760
	R.J. Apsimon et al., H. Guler et al., A. Faus-Golfe et al., J. Yan et al., Y. Yamaguchi et al., T. Akagi et al.,		The FONT5 Bunch- -Bunch Position and Angle Feedback System at ATF2 Neutron Background Predictions and Measurement at ATF2 Beamline Multi-OTR System for ATF2 Shintake Monitor - Nanometer Beam Size Measurement and Beam Tuning Current Status of Nanometer Beam Size Monitor for ATF2 Production of gamma rays pulsed laser beam Compton scattering off GeV-electrons using a non-planar four-mirror optical cavity	Phys.Procedia 37 (2012) 2063-2071 Phys.Procedia 37 (2012) 2039-2046 Phys.Procedia 37 (2012) 2072-2079 Phys.Procedia 37 (2012) 1989-1996 Phys.Procedia 37 (2012) 1983-1988 JINST 7 (2012) P01021	
2011	S. Bai et al., A. Deshpande et al., T. Naito et al., P. Karataev et al.,		Simulation of beam size multiknobs correction at the Accelerator Test Facility 2 at KEK Experimental results of an rf gun and the generation of a multibunch beam Multibunch beam extraction using the strip-line kicker at the KEK Accelerator Test Facility First Observation of the Point Spread Function of Optical Transition Radiation	Chin.Phys. C35 (2011) 397-401 Phys.Rev.ST Accel.Beams 14 (2011) 063501 Phys.Rev.ST Accel.Beams 14 (2011) 051002 Phys.Rev.Lett 107 174801 (2011)	
	2010		P. Bambade et al., Sha Bai et al., S. T. Boogert et al., S. Miyoshi et al., A. Aryshev et al.,	Present status and first results of the final focus beam line at the KEK Accelerator Test Facility First beam waist measurements in the final focus beam line at the KEK Accelerator Test Facility Micron-scale laser-wire scanner for the KEK Accelerator Test Facility extraction line Photon generation laser-Compton scattering at the KEK-ATF Micron size laser-wire system at the ATF extraction line, recent results and ATF-II upgrade	Phys.Rev.ST Accel.Beams 13 (2010) 042801 Phys.Rev.ST Accel.Beams 13 (2010) 092804 Phys.Rev.ST Accel.Beams 13 (2010) 122801 Nucl.Instrum.Meth. A623 (2010) 576-578 Nucl.Instrum.Meth. A623 (2010) 564-566

	T. Suehara et al., N. Terunuma et al., C. M. Spencer et al., S. Ushijima et al.,	A nanometer beam size monitor for ATF2 Improvement of an S-band RF gun with a Cs <sub>2</sub> Te photocathode for the KEK-ATF A Project to Design and Build the Magnets for a New Test Beamline, the ATF2, at KEK Preparation of Adjustable Permanent Magnet Quadrupole Lens for Beam Test at ATF2	Nucl.Instrum.Meth. A616 (2010) 1-8 Nucl.Instrum.Meth. A613 (2010) 1-8 IEEE Trans. Appl.Supercond. 20 (2010) 250 LINAC2010, MOP105
<b>2009</b>	A. Deshpande et al.,	Design of a mode separated RF photo cathode gun	Nucl.Instrum.Meth. A600 (2009) 361-366
<b>2008</b>	Y. Inoue et al., P. Karataev et al.,	Development of a high-resolution cavity-beam position monitor Experimental observation and investigation of the prewave zone effect in optical diffraction radiation	Phys.Rev.ST Accel.Beams 11 (2008) 062801 Phys.Rev.ST Accel.Beams 11 (2008) 032804
<b>2007</b>	T. Naito et al., S. Walston et al., A. Aryshev et al.,  H. Sakai et al.,  N. Delerue et al., T. Nakamura et al., T. Suehara et al., Y. Renier. B. Bolzon.	Development of a 3ns rise and fall time strip-line kicker for the international linear collider Performance of a High Resolution Cavity Beam Position Monitor System Fast microwave detection system for coherent synchrotron radiation study at KEK: Accelerator test facility Improvement of Fresnel zone plate beam-profile monitor and application to ultralow emittance beam profile measurements A laser-wire system for the international linear collider High resolution cavity BPM for ILC final focal system: IP-BPM R and D status of ATF2 IP beam size monitor: Shintake monitor Study of time-dependent corrections in the ATF2 beam-line ATF2 Project: Final doublet support studies at LAPP	Nucl.Instrum.Meth. A571 (2007) 599-607 Nucl.Instrum.Meth. A578 (2007) 1-22 Nucl.Instrum.Meth. A580 (2007) 1544-1551  Phys.Rev.ST Accel.Beams 10 (2007) 042801  Pramana 69 (2007) 1147-1150 eConf C0705302 (2007) BDS04 eConf C0705302 (2007) BDS03 eConf C0705302 (2007) ATF202 eConf C0705302 (2007) ATF201
<b>2006</b>	T. Naito, T. Mitsuhashi T. Omori et al.,  Nicolas Delerue et al., Mika Masuzawa et al.,	Very Small Beam-Size Measurement a Reflective Synchrotron Radiation Interferometer Efficient propagation of the polarization from laser photons to positrons through Compton scattering and electron-positron pair creation Status of the ATF extraction line laser-wire Floor Tilt and Vibration Measurements for the ATF2	Phys.Rev.ST Accel.Beams 9 (2006) 122802 Phys.Rev.Lett. 96 (2006) 114801  physics/0601123 Conf C06092511 (2006) FR002
<b>2005</b>	Y. Honda et al., P. Karataev et al.,	Upgraded laser wire beam profile monitor Observation of optical diffraction radiation from a slit target at KEK accelerator test facility	Nucl.Instrum.Meth. A538 (2005) 100-115 Nucl.Instrum.Meth. B227 (2005) 158-169
<b>2004</b>	T. Naito et al., Y. Honda et al., P. Karataev et al.,	Investigation of carbon contamination on SR irradiated devices Achievement of ultralow emittance beam in the ATF damping ring Beam-size measurement with optical diffraction radiation at KEK accelerator test facility	Nucl.Instrum.Meth. A527 (2004) 624-631 Phys.Rev.Lett. 92 (2004) 054802 Phys.Rev.Lett. 93 (2004) 244802
<b>2003</b>	Y. Honda et al.,  K. Kubo I. Sakai et al.,  T. Muto et al.,  T. Fukuda et al.,  P. Karataev et al., K. Iida et al.,  M. Ross et al.,	Measurements of electron beam emittance in the Accelerator Test Facility damping ring operated in multibunch modes Simulation study of low emittance tuning of the accelerator test facility damping ring at KEK Production of high-brightness gamma-rays through back scattering of laser photons on high-energy electrons Observation of incoherent diffraction radiation from a single edge target in the visible light region Polarimetry of short-pulse gamma-rays produced through inverse Compton scattering of circularly polarized laser beams Status of optical diffraction radiation experiment at KEK-ATF extraction line Measurement of an electron-beam size with a beam profile monitor using Fresnel zone plates A Very high resolution optical transition radiation beam profile monitor	Phys.Rev.ST Accel.Beams 6 (2003) 092802  Phys.Rev.ST Accel.Beams 6 (2003) 092801 Phys.Rev.ST Accel.Beams 6 (2003) 091001  Phys.Rev.Lett. 90 (2003) 104801  Phys.Rev.Lett. 91 (2003) 164801  Nucl.Instrum.Meth. B201 (2003) 140-152 Nucl.Instrum.Meth.A 506 (2003) 41-49  AIP Conf.Proc. 648 (2003) 237-247
<b>2002</b>	K.L.F. Bane et al., H. Sakai et al., K. Kubo et al.,	Intrabeam scattering analysis of measurements at KEK's ATF damping ring Measurement of a small vertical emittance with a laser wire beam profile monitor Extremely low vertical emittance beam in accelerator test facility at KEK	Phys.Rev.ST Accel.Beams 5 (2002) 084403 Phys.Rev.ST Accel.Beams 5 (2002) 122801 Phys.Rev.Lett. 88 (2002) 194801
<b>2001</b>	H. Sakai et al., J. Urakawa et al.,	Measurement of an electron beam size with a laser wire beam profile monitor Feasibility of optical diffraction radiation for a non-invasive low-emittance beam diagnostics	Phys.Rev.ST Accel.Beams 4 (2001) 022801 Nucl.Instrum.Meth. A472 (2001) 309-317
<b>2000</b>	H. Sakai et al., K. Dobashi et al., T. Okugi et al.,	Development of a laser wire beam profile monitor. II Design of polarized positron generation system Evaluation of vertical emittance in KEK-ATF utilizing lifetime measurement	Nucl.Instrum.Meth. A455 (2000) 113-117 Nucl.Instrum.Meth. A455 (2000) 32-35 Nucl.Instrum.Meth. A455 (2000) 207-212
<b>1999</b>	T. Okugi et al., K. Dobashi et al.,	Evaluation of extremely small horizontal emittance at the KEK accelerator test facility Generation of positrons via pair creation of Compton scattered gamma-rays	Phys.Rev.ST Accel.Beams 2 (1999) 022801 Nucl.Instrum.Meth. A437 (1999) 169-177
<b>1998</b>	K. Dobashi et al.,	Generation of positrons via pair creation of Compton scattered gamma-rays	Nucl.Instrum.Meth. A437 (1999) 169-177
<b>1994</b>	J. Urakawa et al.,	Gun trigger system for the ATF	Nucl.Instrum.Meth.A 352 (1994) 207-209
<b>1993</b>	H. Matsumoto et al., T.O. Raubenheimer et al.,	High power test of a SLED system with dual side wall coupling irises for linear colliders The Vertical emittance in the ATF damping ring	Nucl.Instrum.Meth.A 330 (1993) 1-11 Nucl.Instrum.Meth.A 335 (1993) 1-10