Peter Mastin McIntyre III

EDUCATION:

A.B. Honors	University of Chicago, 1967
M.S. Physics	University of Chicago, 1968
Ph.D. Physics	University of Chicago, 1973

POSITIONS HELD:

1968--1969:	Instructor, University of Chicago
1972--1974:	Research Associate, Enrico Fermi Institute
1974--1975:	Visiting Scientist, CERN
1975--1979:	Assistant Professor, Harvard University
1979--1980:	Group Leader, Internal Target Group, Fermilab
1980--1986:	Associate Professor, Texas A &M University
1984--1991:	Spokesman, Texas Accelerator Center
1993--1994:	Director, Texas Accelerator Center
1986--present:	Professor, Texas A&M University
1988--present:	President, Accelerator Technology Corporation
1990--1991:	Associate Dean, College of Science, Texas A&M University
1990--1991:	President, Texas Section of the American Physical Society
2016--2017:	Head, Department of Physics and Astronomy, Texas A&M University

AWARDS AND FELLOWSHIPS:

Sloan Foundation Fellow, 1980-82

IR-100 Award, 1981: electron beam development and electron cooling experiments

Governor's Citation of Merit, 1989: leadership in the Texas siting of the SSC

Fellow, American Physical Society, 2001

Mitchell-Heep Professor of Experimental Physics, Texas A&M University

PATENTS ISSUED AND APPLIED FOR:

2020: Blocks in Conduit cable using high-temperature superconducting tape

2020: Conformal winding and current-sharing in a dipole magnet using superconducting tape conductor

2020: Improved textured-powder Bi-2212/Ag wire and method of fabrication

2020: WO2016100844A1 Improved methods and compositions for fabrication of superconducting wire

2019: 10,378,793 Hermetic bladder for high-temperature vessels and piping

2017: 10,037,835 Quench protected structured superconducting cable

2014: 10,006,977 Open magnetic resonance imaging

2013: 8,592,346B2 Textured powder wires

2013: 8,983,017B2 Accelerator driven sub-critical core

2006: 7,746,192B2: Polyhedral contoured microwave cavities

2003: 6,576,915B1: Method and system for electronic pasteurization

2002: 6,448,501B1: Armored spring-core superconducting cable and method of construction

1999: 6,002,316A Superconducting coil and method of stress management in a superconducting coil

1999: 5,994,901A: Magnetic resonance logging instrument

1994: 5,374,913A: Twin-bore flux pipe dipole magnet

1993: 5,227,701A: Gigatron microwave amplifier

1990: 4,915,541A: Method and apparatus for continuously boring and lining tunnels

POST-DOCTORAL, GRADUATE AND UNDERGRADUATE STUDENTS (PAST DECADE)

	graduated	now employed		graduated	now employed
John Rogers	current		Elizabeth Sooby	2104	UT San Antonio
Gareth May	current		Dior Sattarov	2019	Commonwealth Fusion
Christian Ratcliff	current		Justin Comeuax	2016	Lockheed Martin
Saeed Assadi	2019	LLNL	Kyle Damborsky	2014	Cree Technologies
Joshua Kellams	2018	Lockheed Martin	Nate Pogue	2013	LLNL
Karie Badgley	2016	FNAL			

Peter Mastin McIntyre III

Peter Mastin McIntyre III is Mitchell-Heep Professor of Experimental Physics at Texas A&M University and President of Accelerator Technology Corp. He studied at the University of Chicago, where he received his Ph.D. in 1973. He performed experiments with colliding beams at CERN in Geneva, Switzerland until 1975, then joined Harvard University as Assistant Professor. In 1976 he was the first to propose to make colliding beams of protons and antiprotons using the large synchrotrons at Fermilab and at CERN. This work led to the discovery of the weak bosons at CERN in 1982. He developed several techniques for cooling intense beams of antiprotons. In 1980 he was awarded an IR100 award for the invention of a technique for high-efficiency collection of intense electron beams.

Dr. McIntyre is an A.P. Sloan Foundation fellow, and he is listed in Who's Who in America. Dr. McIntyre was among the first to propose the construction of the Superconducting Super Collider and was co-author of the Texas SSC site proposal. In 2001 he was elected a Fellow of the American Physical Society.

High energy physics. Prof. McIntyre was a founding collaborator in the CDF experiment at Fermilab, which discovered the top quark in 1995.

Accelerator physics and technology. Prof. McIntyre has developed several new technologies for superconducting magnets, including low-field superferric dipoles for hadron colliders, stress management for ultra-high-field dipoles, a 4 Tesla whole-body solenoid for functional brain imaging, a 400 MHz self-shielded solenoid for MR spectroscopy, a superconducting dipole for MR well logging, and a structured cable using the new high-temperature superconductors. His group has developed advanced superconducting cable-in-conduit cable and coil technologies, and used them to design a 20 T dipole for a high-field dipole for the proposed 100 TeV FCC-hh hadron collider. He has designed a 4.5 T dipole that optimizes the cost/TeV of an ultimate-energy hadron collider. He has developed a design that uses it in a Collider-in-the-Sea, which would be installed in a 2000 km circular pipeline in the Gulf of Mexico, located with neutral buoyancy at 100 m depth, positioned using marine thrusters, and producing high-luminosity colliding beams at 500 TeV collision energy.

Prof. McIntyre invented the strong-focusing cyclotron, a superconducting cyclotron in which quadrupole focusing channels are fabricated on the pole faces of the sector dipoles to provide alternating-gradient focusing to each orbit. He invented a folded-lobe superconducting cavity structure that provides high-gradient acceleration in such a cyclotron so that the orbits are sufficiently separated for the quadrupole channels to effectively guide each orbit. These two developments open a new generation of performance for cyclotrons, with large phase space acceptance, high beam current, and the potential for much higher beam current. Applications include medical isotope synthesis, ADS fission of transuranics, and high-flux neutron damage facilities.

Prof. McIntyre invented the polyhedral structure for superconducting linac cavities for linac colliders and free-electron lasers. A multi-cell cavity is formed as a Roman arch assembly of polyhedral wedge segments in which each wedge has its inner surface contoured to form the ellipsoidal shape desired for the accelerating mode. The joints between wedge segments offer the possibility to internally suppress all dipole-type higher-order modes by intercepting and terminating azimuthal currents. The Nb inner surface on each wedged is provided as a thin foil bonded to a solid copper body that has been machined to the desired contour. The wedge provides stiff support to suppress Lorentz detuning, and the superfluid refrigeration could be integrated within the wedges so no pool cryostat is required. Because the Nb surface is fully accessible until the final assembly step, it becomes possible for the first time to synthesize a heterostructure on the critical inner surface which could then make it possible to dramatically extend the attainable gradient and improve the Q for both linac collider and free electron laser applications.

Superconducting magnet technology. Prof. McIntyre co-invented (with Russ Huson) the superferric magnet, in which the low reluctance of steel is used to produce high field homogeneity and efficient use of superconductor up to 3 T. They used the superferric design was used to develop a low-cost magnet design for the arc dipoles of the SSC, and McIntyre later used it in developing the arc dipoles for the proposed JLEIC.

Prof. McIntyre developed a novel design for superconducting cable-in-conduit (CIC) in which superconducting wires are cabled around a perforated center tube, an over-wrap is applied, the cable is pulled as a loose fit through a sheath tube, and the sheath tube is drawn down onto the cable to compress the wires against the center tube and immobilize them. He led the development of the CIC technology and a coil technology in which the cables can be formed into the windings for dipoles, quadrupoles, toroids, or solenoids while retaining the full superconducting performance of the constituent wires. He has extended the technology to make a high-current 2-layer CIC, and used it to make conductor-efficient designs for a 6 T NbTi dipole for JLEIC. The CIC cable has also been fabricated successfully using Nb_3Sn for high-field dipoles, MgB_2 for superconducting generators and transmission lines, and Bi-2212 for high-field collider dipoles and for the toroids and solenoids for next-generation tokamaks.

Prof. McIntyre has developed a 40 kA Blocks-in-Conduit (BIC) cable for use in the toroids and solenoids of a next-generation tokamak for magnetic-confinement fusion power. It is a round cable containing blocks of REBCO superconducting tapes, configured to provide stress management at the cable level, excellent current-sharing among the tapes, and cross-flow cryogenic cooling . The BIC cable can be co-wound with a 2-piece armor shell that provides stress management and integrated structure for operation at 20 T, 20 K – the optimum parameters for maximum net electric power from a tokamak.

Materials science. Prof. McIntyre invented a method for fully texturing a powder of the high-temperature superconductor Bi-2212, pressing the textured powder into a near-fully-dense square rod, in which the a-b planes of the grains are aligned to be nearly parallel. He is now developing a jelly-roll assembly in which many such rods are laminated with silver foil, rolled into a 'jelly roll', and drawn to make a round wire. This development has the potential to solve the two issues that limit performance of current Bi-2212/Ag wire – porosity and connectivity.

Accelerator-driven subcritical nuclear fission power. Prof. McIntyre developed a design for accelerator-driven subcritical nuclear fission power, in which proton beams from a flux-coupled isochronous cyclotron stack are used to drive a subcritical molten-salt-eutectic fission core. This technology addresses all of the criteria for a green nuclear technology: it can burn the three most plentiful nuclear fuels – spent nuclear fuel from conventional nuclear power plants, depleted uranium, and thorium; it eats its own long-lived waste; it burns the fuel to near completion; it limits opportunities for proliferation.

*Concentrated solar power: advanced molten salt technology*Concentrated solar power (CSP) converts sunlight to heat molten salt, stores the hot salt in an underground tank, and produces electric power efficiently and continuously. Prof. McIntyre has invented new molten salt technology that makes it possible to contain the storage and flow of hot molten salt in vessels and piping made from inexpensive metal alloys. Prof. McIntyre's conformal heat shield technology is crucial to make CSP cost-effective in the energy marketplace.

Peter Mastin McIntyre - Publications

813. Selective laser melting of tungsten: effects of hatch distance and point distance on pore formation. (with J. Huang *et al.*), J. Manufacturing Processes **61**, 296–30 (2021).

812. REBCO-based dipole optimized for an ultimate-energy hadron collider. (with J.S. Rogers and A. Sattarov), Proc. Applied Superconduct. Conf., Tallahassee, Oct. 24 – Nov. 7, 2020.

811. Development of multi-filament textured-powder Bi-2212/Ag wire with enhanced LAR. (with J.S. Rogers *et al.*), *ibid.*

810. Blocks-in-Conduit: REBCO cable for a 20T@20K toroid for compact fusion tokamaks. (with J.S. Rogers and A. Sattarov), *ibid*.

809. The development of a Sustained High Power Density (SHPD) facility. (with T. Brown *et al.*), Proc 31st Symposium on Fusion Technology, https://soft2020.eu/

808. SuperCIC: enhanced winding current density for high-field windings of tokamaks. (with J. Breitschopf *et al.*), IEEE Trans. Appl. Superconduct **30**, 4, 4203407 (2020). https://ieeexplore.ieee.org/document/8978480

807. >16 T hybrid dipole for an LHC Energy Doubler. (with J. Breitschopf *et al.*), *ibid.* 4901906. https://ieeexplore.ieee.org/abstract/document/9042301

806. Two-layer cable-in-conduit for hybrid-coil magnets. (with J. Breitschopf *et al.*), IOP Conference Series: Materials Science and Engineering, v.756, Adv. in Cryogenic Eng. – Materials: Proc. Int. Cryogenic Materials Conference, 21-25 July 2019, Hartford. https://iopscience.iop.org/article/10.1088/1757-899X/756/1/012031

805. Cable-in-Conduit dipoles for the Ion Ring of JLEIC. (with J. Breitschopf *et al.*), IEEE Trans. Appl. Superconduct. **29**, 5, 4004806 (2019). https://ieeexplore.ieee.org/document/8675432

804. CIC cable technologies for high-current windings. (with D. Chavez *et al.*), IOP Conf. Series: Mat. Sci. and Eng. **502**, 1, 012177 (2019). https://iopscience.iop.org/article/10.1088/1757-899X/502/1/012177/pdf

803. Enhanced-Textured-Powder Bi-2212/Ag wire development. (with J.N. Kellams *et al.*), *ibid*. 012183 (2019). https://iopscience.iop.org/article/10.1088/1757-899X/502/1/012183/pdf

802. 6 T cable-in-conduit dipole to double the ion energy for JLEIC. (with J. Breitschopf *et al.*), Proc. Int'l Particle Accel. Conf., Melbourne, May 19-24, 2019. doi:10.18429/JACoW-IPAC2019-MOPMP049

801. LHC Doubler: CIC dipole technology may make it feasible and affordable. (with J. Breitschopf *et al.*), *ibid*. accelconf.web.cern.ch/AccelConf/ipac2019/papers/mopmp048.pdf

800. Micro-aligned solenoid for magnetized bunched-beam electron cooling. (with J. Breitschopf, *et al.*), *ibid*. accelconf.web.cern.ch/AccelConf/ipac2019/papers/thpts087.pdf

799. Block-type Nb_3Sn dipole R&D at Texas A&M University, ch. 10, *Nb_3Sn Accelerator Magnets: Designs, Technologies, Performance*, D. Schoerling and A. Zlovin, eds., Springer (2019). https://www.springer.com/gp/book/9783030161170

798. Block-coil high-field dipoles using superconducting cable-in-conduit. (with J. Breitschopf *et al.*), IEEE Trans. Appl. Superconduct. **28**, 3, 1 (2018). DOI: 10.1109/TASC.2018.2797915

797. Stealth superconducting magnet technology for collider IR and injector requirements. (with J. Breitschopf *et al.*), *ibid*. DOI: 10.1109/TASC.2018.2805900

796. Multiplex superconducting transmission line for green power consolidation on a Smart Grid. (with J. Gerity, J. Kellams, and A. Sattarov), IOP Conf. Series: Mat. Sci. and Eng. **278**, 012020 (2017). DOI: 10.1088/1757-899X/278/1/012020

795. Fabrication of long-length cable-in-conduit for superconducting magnets. (with J. Breitschopf *et al*.), ibid. https://iopscience.iop.org/article/10.1088/1757-899X/279/1/012036

794. Cable-in-conduit dipoles to enable a future hadron collider. (with S. Assadi *et al*.), IEEE Trans. Appl. Superconduct. **27**, 4, 4004005 (2017). DOI: 10.1109/TASC.2017.2656157

793. Observation of the $Y(4140)$ structure in the J/ψ-ϕ mass spectrum in $B^{\pm}\rightarrow J/\psi\phi K^{\pm}$ decays (with T. Aaltonen *et al*.), Mod. Phys. Lett. **A 32**, 1750139 (2017). DOI: 10.1142/S0217732317501395

792. Collider in the Sea: vision for a 500 TeV world laboratory. (with S. Assadi *et al*.), *Proc. North Amer. Particle Accelerator Conf., Chicago, October 4-9, 2016.* DOI: 10.18429/JACoW-NAPAC2016-MOB2CO03

791. Simulation of beam dynamics in a strong-focusing cyclotron. (with S. Assadi *et al.*), *ibid.* DOI: 10.18429/JACoW-NAPAC2016-TUA1CO04

790. Progress on the design of the polarized Medium-energy Electron Ion Collider at JLab. (with F. Lin *et al*.), Proc. Int. Part. Accel. Conf., Richmond, May 15, 2015. DOI: 10.18429/jacow-ipac2015-tuyb3

789. Nonlinear beam dynamics studies of the next-generation strong focusing cyclotrons as compact high-brightness, low-emittance drivers. (with S. Assadi et al.), *ibid*. DOI: 10.18429/jacow-ipac2015-tuyb3MOPMA047

788. Textured-powder Bi-2212/Ag wire technology development. (with J.N. Kellams *et al*.), *ibid.* DOI: 10.1088/1757-899X/102/1/012028/pdf

787. Status of the MEIC ion collider ring design. (with Y. Cai *et al*.), *ibid.* DOI: 10.18429/jacow-ipac2015-tupwi031

786. Fixed-energy cooling and stacking for an electron ion collider. (with S. Assadi *et al*.) *ibid.* DOI: 10.18429/jacow-ipac2015-tupty078

785. Optimization of orbits, SRF acceleration, and focusing lattice for a strong-focusing cyclotron. (with K. Melconian *et al*.), *ibid.* DOI: 10.18429/jacow-ipac2015-THPF135

784. Magnet design and synchrotron damping considerations for a 100 TeV hadron collider. (with S. Assadi *et al*.), *ibid.* 10.18429/jacow-ipac2015-THPF134

783. Measurements of the liquidus surface and solidus transitions of the $NaCl$-UCl_3 and $NaCl$-UCl_3-$CeCl_3$ phase diagrams. (with E. Sooby, A. Nelson, and J. White), J. Nucl. Mat. **466**, 280 (2015). DOI 10.1016/j.jnucmat.2015.07.050

782. High-field open MRI for breast cancer screening. (with A. Sattarov and L. Motowidlo), IEEE Trans. Appl. Superconduct. **25**, 3, 4301105 (2015). DOI: 10.1109/T ASC.2014.2377049

781. Superconducting sector dipole for a strong-focusing cyclotron. (J. Kellams *et al*.), *ibid*, 4003904 (2015). DOI: 10.1109/TAS015.2397471

780. Strong focusing cyclotron and its applications. (with N. Pogue *et al*.), *ibid.* 0600104. DOI: 10.1109/TASC.2014.2371336

779. First results of the SRF wafer test cavity for the characterization of superconductors. (with N. Pogue *et al.), ibid*, 3500204. DOI: 10.1109/TASC.2014.2362415

778. Design of a MgB_2 beam transport channel for a strong-focusing cyclotron. (with K. Melconian *et al.*), IEEE Trans. Appl. Superconduct. **24**, 3, 4601404 (2014). DOI: 10.1109/TASC.2013.2286857

777. Design and development of a MgB_2-based sector dipole and beam transport channel for a strong-focusing cyclotron. (with K. Melconian *et al.*), AIP Conference Proceedings **1573**, 739 (2014); DOI: 10.1063/1.4860777

776. Nonlinear beam dynamics studies of high-intensity, high-brightness proton drivers. (with S. Assadi and K. Melconian), Proc. NAPAC'13 Particle Accel. Conf., Pasadena, Sept. 2013. http://accelconf.web.cern.ch/accelconf/pac2013/papers/tupac26.pdf

775. Accelerator-driven subcritical fission to destroy transuranics in spent nuclear fuel and close the nuclear fuel cycle. (with S. Assadi *et al.), ibid.* http://accelconf.web.cern.ch/accelconf/pac2013/papers/mozab1.pdf

774. Accelerator-based neutron damage facility using LEDA. (with N. Pogue *et al.*), *ibid.* http://accelconf.web.cern.ch/accelconf/pac2013/papers/thoda2.pdf

773. Transport properties of high green core density Bi-2212 textured-powder conductors. (with K. Damborsky *et al.*), *ibid.* AIP Conference Proceedings **1574**, 232 (2014); DOI: 10.1063/1.4860629

772. Construction challenges and solutions in TAMU3, a 14 T stress-managed Nb_3Sn dipole. (with E. Holik *et al.*), AIP Conference Proceedings **1573**, 1535 (2014); DOI: 10.1063/1.4860889

771. W-boson polarization measurement in the $t\bar{t}$ dilepton channel using the CDF II detector. (with T. Aaltonen *et al.*), Phys. Lett **B722**, 1, 48 (2013). DOI: 10.1016/j.physletb.2013.03.032

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769. Search for a two-Higgs-boson doublet using a simplified model in $p\bar{p}$ collisions at $\sqrt{s}$= 1.96 TeV. (with T. Aaltonen *et al.*) Phys. Rev. Lett. **110**, 121801 (2013). 10.1103/PhysRevLett.110.121801

768. Search for the Higgs boson in the all-hadronic final state using the full CDF data set. (with T. Aaltonen *et al.*) J. High Energy Phys. **2**, 004 (2013). DOI: 10.1007/JHEP02(2013)004

767. Combination of CDF and D0 *W*-Boson mass measurements. (with T. Aaltonen *et al.*), Phys. Rev. **D88**, 052018 (2003). https://arxiv.org/pdf/1307.7627.pdf

766. Measurement of the B_c^- meson lifetime in the decay $B_c^- \to J/\Psi\pi^-$. (with T. Aaltonen *et al.*) Phys. Rev. **D87**, 011101 (2013). DOI: 10.1016/j.physletb.2015.01.010

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763. Molten salt considerations for accelerator-driven sub.critical fission to close the nuclear fuel cycle. (with E. Sooby *et al.*), AIP Conference Proc.**1525**, 230-235 (2013). DOI: 10.1063/1.4802325

762. Neutronics of accelerator-driven subcritical fission for burning transuranics in used nuclear fuel. (with A. Sattarov et al.), AIP Conference Proc.**1525**, 245-250 (2013). DOI: 10.1063/1.4802328

761. Candidate molten salt investigation for an accelerator driven subcritical core. (with E. Sooby et al.), J. Nucl. Mater. **440**, 1-3, 298 (2013). DOI: 10.1016/j.jnucmat.2013.04.004

760. Search for a heavy vector boson decaying to two gluons in $p\bar{p}$ collisions at √s= 1.96 TeV. (with T. Aaltonen *et al.*) Phys. Rev. **D86**, 112002 (2012). DOI: 10.1103/PhysRevD.86.112002

759. Novel inclusive search for the Higgs boson in the four-lepton final state at CDF. (with T. Aaltonen *et al.*) Phys. Rev. **D86**, 099902 (2012). DOI: 10.1103/PhysRevD.86.099902, 10.1103/PhysRevD.86.072012

758. Combination of the top-quark mass measurements from the Tevatron collider. (with T. Aaltonen *et al.*) Phys. Rev. **D86**, 092003 (2012). DOI: 10.1103/PhysRevD.86.092003

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756. Search for neutral Higgs bosons in events with multiple bottom quarks at the Tevatron. (with T. Aaltonen *et al.*) Phys. Rev. **D86**, 091101 (2012). DOI: 10.1103/PhysRevD.86.091101

755. Search for the Standard Model Higgs boson produced in association with top quarks using the full CDF data set. (with T. Aaltonen *et al.*) Phys. Rev. Lett. **109**, 181802 (2012). DOI: 10.1103/PhysRevD.86.091101

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751. Search for scalar top quark production in $p\bar{p}$ collisions at √s= 1.96 TeV. (with T. Aaltonen *et al.*) J. High Energy Phys. **10**, 158 (2012). DOI: 10.1007/JHEP10(2012)158

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748. Search for the Standard Model Higgs boson decaying to a $b\bar{b}$ pair in events with one charged lepton and large missing transverse energy using the full CDF data set. (with T. Aaltonen *et al.*) Phys. Rev. Lett. **109**, 111804 (2012). DOI: 10.1103/PhysRevLett.109.111804

747. Search for the Standard Model Higgs boson decaying to a $b\bar{b}$ pair in events with two oppositely charged leptons using the full CDF data set. (with T. Aaltonen *et al.*) Phys. Rev. Lett. **109**, 111803 (2012). DOI: 10.1103/PhysRevLett.109.111803

746. Combined search for the Standard Model Higgs boson decaying to a $b\bar{b}$ pair using the full CDF data set. (with T. Aaltonen *et al.*) Phys. Rev. Lett. **109**, 111802 (2012). DOI: 10.1103/PhysRevLett.109.111802

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744. Search for the standard model Higgs boson produced in association with a Z boson in 7.9 fb^{-1} of $p\bar{p}$ collisions at √s= 1.96 TeV using the CDF ll detector. (with T. Aaltonen *et al.*) Phys. Lett. **B715**, 98-104 (2012). DOI: 10.1016/j.physletb.2012.03.005

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742. Diffractive dijet production in $p\bar{p}$ collisions at √s= 1.96 TeV. (with T. Aaltonen *et al.*) Phys. Rev. **D86**, 032009 (2012). DOI: 10.1103/PhysRevD.86.032009

741. Measurement of CP-violation asymmetries in $D^0 \to K_s^0\pi^+\pi^-$. (with T. Aaltonen *et al.*) Phys. Rev. **D86**, 032007 (2012). DOI: 10.1103/PhysRevD.86.032007

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https://accelconf.web.cern.ch/accelconf/IPAC2012/papers/mooba01.pdf

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