

Poster Session 1, Monday 20th June 20.30 – 22.00

POSTER No.	TITLE	AUTHORS
M1	LARGE KERR NONLINEARITY AND NEW MAGNETO-OPTICAL RESONANCES IN COHERENT ATOMIC MEDIA	A.M. AKULSHIN, A.I. SIDOROV, R.J. MCLEAN AND P. HANNAFORD
M2	SIMPLIFIED VERSION OF A FREQUENCY MEASUREMENT AT 30 THZ USING AN OPTICAL FREQUENCY COMB	A. AMY-KLEIN, A. GONCHAROV, A. SHELKOVNIKOV, M. GUINET, C. DAUSSY, O. LOPEZ AND C. CHARDONNET
M3	ABSOLUTE FREQUENCY MEASUREMENT OF THE 1S-3S LINE IN ATOMIC HYDROGEN	O. ARNOULT, F. NEZ, L. JULIEN AND F. BIRABEN
M4	SUB-DOPPLER COOLING IN REDUCED PERIOD OPTICAL LATTICE GEOMETRIES	P. R. BERMAN, G. RAITHEL, R. ZHANG, N. V. MORROW AND V. S. MALINOVSKY
M5	OPTICAL MAGNETOMETRY USING A DFB LASER AT THE Cs D ₁ TRANSITION	G. BISON, S. GRÖGER, A. S. PAZGALEV AND A. WEIS
M6	ATOM OPTICS AND INTERFEROMETRY WITH BOSE EINSTEIN CONDENSATES IN AN OPTICAL DIPOLE TRAP	P. BOUYER, J. F. RIOU, W. GUERIN, S. SCHWARTZ, J. GAEBBLER, V. JOSSE AND A. ASPECT
M7	FUNDAMENTALS AND APPLICATIONS OF SLOW AND FAST LIGHT	ROBERT W. BOYD, NICK LEPESHKIN, AARON SCHWEINSBERG AND PETROS ZEROM
M8	TWO-MODE THEORY OF BEC INTERFEROMETRY	B J DALTON
M9	LONG-DISTANCE FREQUENCY DISSEMINATION WITH A RESOLUTION OF 10 ⁻¹⁷	C. DAUSSY, O. LOPEZ, A. AMY-KLEIN, A. GONCHAROV, M. GUINET, C. CHARDONNET, F. NARBONNEAU, M. LOURS, S. BIZE, D. CHAMBON, A. CLAIRON, G. SANTARELLI, M.E TOBAR AND A.N. LUITEN
M10	SINGLE WEAK LINK BETWEEN BOSE-EINSTEIN CONDENSATES	RUDOLF GATI, MICHAEL ALBIEZ, JONAS FÖLLING, STEFAN HUNSMANN, MARKUS K. OBERTHALER AND MATTEO CRISTIANI
M11	OPTIMUM MEASUREMENT STRATEGIES FOR TRAPPED ION OPTICAL FREQUENCY STANDARDS	ALASTAIR G. SINCLAIR AND ERLING RIIS
M12	SUPERRADIANT CONVERSION OF ATOMIC SPIN GRATINGS INTO SINGLE PHOTONS	J. K. THOMPSON, A. T. BLACK, AND V. VULETIĆ
M13	THE RECENT MEASUREMENTS ON THE LASER COOLED CESIUM FOUNTAIN VNIIFTRI	YU. S. DOMNIN, G. A. ELKIN, A. V. NOVOSELOV, L. N. KOPYLOV, V. N. BARYSHEV, YU. M. MALYCHEV AND V. G. PAL'CHIKOV
M14	TWO-COLOUR LASER PHOTODETACHMENT MICROSCOPY OF S ⁻	C. DELSART, C. DRAG, W. CHAIBI AND C. BLONDEL
M15	TESTS OF LORENTZ INVARIANCE USING OPTICAL RESONATORS AT ROOM TEMPERATURE	S. T. DAWKINS AND A. N. LUITEN

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M16	THE ATOMIC SPIROGRAPH: ATOMIC WAVE FUNCTION AND LASER PULSE SHAPE MEASUREMENTS FROM COHERENT TRANSIENTS	B. CHATEL, A. MONMAYRANT AND B. GIRARD
M17	DYNAMICS OF ATOMS IN A LATTICE OF RING TRAPS	EMMANUEL COURTADE, OLIVIER HOUDE, DANIEL HENNEQUIN AND PHILLIPE VERKERK
M18	QUANTUM STATISTICS OF ULTRACOLD ATOMS IN LATTICES	J. F. CORNEY AND P. D. DRUMMOND
M19	RECENT PROGRESS TOWARDS AN OPTICAL CLOCK WITH A SINGLE CALCIUM ION	C. CHAMPENOIS, G. HAGEL, C. LISOWSKI, M. HOUSSIN, M. VEDEL, M. KNOOP AND F. VEDEL
M20	ADIABATIC PASSAGE IN AN OPEN MULTILEVEL SYSTEM	W. CHAŁUPCZAK, D. HENDERSON, Y. OVCHINNIKOV AND K. SZYMANIEC
M21	BOSE-EINSTEIN CONDENSATION ON A PERMANENT-MAGNET ATOM CHIP	C. D. J. SINCLAIR, E. A. CURTIS, I. LLORENTE GARCIA, J. A. RETTER, B. V. HALL, S. ERIKSSON, B. E. SAUER AND E. A. HINDS
M22	EXPERIMENTSWITH AN OPTICALLY-TRAPPED Rb-87 CONDENSATE	G. SMIRNE, C.M. CHANDRASHEKAR, V. BOYER, D. CASSETTARI, R. M. GODUN, Z.J.LACZIK, C. J. FOOT, K. GÓRAL, AND T. KÖHLER
M23	THERMAL INSTABILITY OF A DOUBLY QUANTIZED VORTEX IN A BOSE-EINSTEIN CONDENSATE	K. GAWRYLUK, M BREWCZYK, M GAJDA AND K RZAŻEWSKI
M24	PROPERTIES OF BOSE-FERMI MIXTURES IN THE PROXIMITY OF STABILITY-INSTABILITY CROSSOVER	T. KARPIUK, T. ŚWISIOCKI, M. BREWCZYK, M GAJDA AND K RZAŻEWSKI
M25	LASER OPTOGALVANIC MEASUREMENT AND MQDT ANALYSIS OF AUTOIONIZING RESONANCES IN XENON	M. HANIF, M. ASLAM AND M. A. BAIG
M26	COHERENT CONTROL OF DECOHERENCE IN DIATOMIC MOLECULES	M. P. A. BRANDERHORST, P. LONDERO, P. WASYL CZYK, I. A. WALMSLEY, C. BRIF, H. RABITZ AND R. L. KOSUT
M27	DUAL OPTICAL LATTICE FOR THE STUDY OF CONTROLLED COLLISIONS AND QUANTUM COMPUTATION	TARO EICHLER, TETSUYA MUKAI, ALEXANDER KASPER AND FUJIO SHIMIZU
M28	COHERENT MICROSCOPY BELOW THE DIFFRACTION RESOLUTION LIMIT	BRAD LITTLETON, DENNIS LONGSTAFF, VASSILIOS SARAFIS AND HALINA RUBINSZTEIN-DUNLOP
M29	TOWARDS AN ATOM CHIP INTERFEROMETER	D. SAHAGUN, S. ERIKSSON, C. D. J. SINCLAIR, E. A. CURTIS, B. E. SAUER AND E. A. HINDS
M30	MEASURING THE DISSOCIATION ENERGIES OF H ₂ , D ₂ , HD, AND THEIR IONS	E.E. EYLER, Y.P. ZHANG, J. STANOJEVIC, AND C.H. CHENG

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M31	FEEDBACK CONTROL OF A SINGLE TRAPPED ION'S MOTION	PAVEL BUSHEV, ALEX WILSON, JÜRGEN ESCHNER, DANIEL ROTTER, CHRISTOPH BECHER AND RAINER BLATT
M32	BOSE-EINSTEIN CONDENSATES IN DISORDERED OPTICAL LATTICES	T. SCHULTE, S. DRENKELFORTH , J. KRUSE, J. ARLT AND W. ERTMER
M33	CW-OPO COMBINED WITH AN OPTICAL FREQUENCY COMB FOR PRECISE MID-IR SPECTROSCOPY	INGO ERNSTING, FRANK MÜLLER, ANDREAS WICHT, STEPHAN SCHILLER AND FRANK KÜHNEMANN
M34	QUANTUM COMPARISON OF COHERENT STATES	ERIKA ANDERSSON AND IGOR JEX
M35	JOINT MEASUREMENTS OF SPIN, NO-SIGNALING AND UNCERTAINTY	ERIKA ANDERSSON, STEPHEN M. BARNETT AND ALAIN ASPECT
M36	DEMONSTRATION OF DEEP-UV QUANTUM INTERFERENCE METROLOGY WITH AMPLIFIED ULTRASHORT LASER PULSES	R.TH. ZINKSTOK, S. WITTE, W. UBACHS, W. HOGERVORST AND K.S.E. EIKEMA
M37	2D PERMANENT MAGNETIC LATTICES FOR ULTRACOLD ATOMS AND BOSE-EINSTEIN CONDENSATES	SAEED GHANBARI, TIEN KIEU, ANDREI SIDOROV, BRYAN DALTON AND PETER HANNAFORD
M38	DIRECT SPECTROSCOPY OF CESIUM WITH A FEMTOSECOND LASER FREQUENCY COMB	VLADISLAV GERGINOV, CAROL E. TANNER, SCOTT A. DIDDAMS, ALBRECHT BARTELS AND LEO HOLLBERG
M39	SUPERFLUIDITY OF A BOSE-EINSTEIN CONDENSATE WITHIN THE CLASSICAL FIELDS METHOD	L ZAWITKOWSKI, P NAVEZ, M GAJDA AND K. RZAŻEWSKI
M40	EIT RESONANCE OF Cs ATOMS IN A THIN CELL	K. FUKUDA, A. TORIYAMA, A. CH. IZMAILOV, AND M. TACHIKAWA
M41	COHERENT AMPLIFICATION IN LASER COOLING AND TRAPPING	TIM FREEGARDE, GEOFF DANIELL AND DANNY SEGAL
M42	PHASE-DEPENDENT ATOMIC DYNAMICS IN A DIAMOND SYSTEM	S. FRANKE-ARNOLD, D. BOYCE, G.-L. OPPO, G. MORIGI AND S. SCHRÖDER
M43	DIFFRACTION OF A CONDENSATE FROM A MAGNETIC LATTICE ON A MICRO CHIP	J. FORTÁGH, A. GÜNTHER, S. KRAFT AND C. ZIMMERMANN
M44	DYNAMIC AND COHERENT MANIPULATION OF CA ⁺ IONS IN A PENNING TRAP	A. ABDULLA, R.J. HENDRICKS, K. KOO, H. OHADI, E.S. PHILLIPS, D.M. SEGAL AND R.C. THOMPSON
M45	ATOMIC AND MOLECULAR QUANTUM GAS IN AN OPTICAL LATTICE	D. J. HEINZEN, C. RYU, EMEK YESILADA, SHOUPU WAN AND XU DU
M46	MONITORING HIGHLY EXCITED ELECTRON DYNAMICS IN THE NOBLE GASES WITH HIGH-ORDER HARMONIC PULSES	EVA HEESEL, CORINNE GLENDINNING, HELEN H. FIELDING, SARAH GUNDRY, CHARLES HAWORTH, JOE ROBINSON, JON P. MARANGOS, ROLAND A. SMITH, JOHN W.G. TISCH, JUSTIN STEELE-DAVIES MAREK J. STANKIEWICZ AND LESZEK J. FRASINSKI

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M47	AN IN SITU DETECTION OF TRAPPED ATOMS IN A STARK ATOM CHIP	HIDEKAZU HACHISU, TETSUO KISHIMOTO, JUN FUJIKI, MASAMI YASUDA AND HIDETOSHI KATORI
M48	CRITICAL SLOWING DOWN NEAR BIFURCATION POINT IN PARAMETRICALLY-DRIVEN MAGNETO-OPTICAL TRAP	MYOUNG-SUN HEO, KIHWAN KIM, KI-HWAN LEE, HEUNG-RYOUL NOH, ROBIN KAISER AND WONHO JHEI
M49	FREQUENCY MEASUREMENTS OF THE 1S_0 - 3P_0 OPTICAL CLOCK TRANSITION IN YTTERBIUM	C. W. HOYT, Z. W. BARBER, C. W. OATES, T. M. FORTIER, S. A. DIDDAMS AND L. HOLLBERG
M50	ATOM-CHIP-BASED FAST PRODUCTION OF BOSE-EINSTEIN CONDENSATE ATOMS	MUNEKAZU HORIKOSHI AND KEN'ICH NAKAGAWA
M51	EFFICIENT GENERATION OF SQUEEZED AND CONTINUOUS ENTANGLED ATOMIC BEAMS	J.J. HOPE AND S.A. HAINE
M52	EXPERIMENTAL CONFIRMATION OF THE ϵ -CLASSICAL MODEL OF THE QUANTUM KICKED ROTOR	M.D. HOOGERLAND, S. WAYPER, W. SIMPSON AND M. SADGROVE
M53	EFFICIENT CHARACTERIZATION OF AN EXPERIMENTAL TWO PHOTON QUANTUM GATE	HOLGER F. HOFMANN, RYO OKAMOTO AND SHIGEKI TAKEUCHI
M54	COLD RYDBERG ATOMS AND PLASMAS IN STRONG MAGNETIC FIELDS	J. R. GUEST, J.-H. CHOI, E. HANSIS, A. P. POVILUS AND G. RAITHEL
M55	A MEASUREMENT OF THE ELECTRON'S ELECTRIC DIPOLE MOMENT USING YbF MOLECULES	J.J. HUDSON, P.C. CONDYLIS, H.A. ASHWORTH, M.R. TARBUTT, B.E. SAUER AND E.A. HINDS
M56	OPTICAL SYNTHESIS WITH A HIGH STABILITY MICROWAVE SOURCE	J. J. MCFERRAN, S. T. DAWKINS, P. STANWIX, J. ANSTIE, E. IVANOV, C. R. LOCKE, M. E. TOBAR AND A. N. LUITEN
M57	EIT ENHANCEMENT OF TWO-BEAM-EXCITED CONICAL EMISSION IN HOT RUBIDIUM VAPOR	C.F. MCCORMICK, K.M. JONES, AND P.D. LETT
M58	TRAP DEPTH REQUIREMENT IN AN OPTICAL LATTICE CLOCK	PIERRE LEMONDE AND PETER WOLF
M59	SMALL QUANTUM ALGORITHMS REALIZED IN A SCALABLE ION TRAP ARRAY	D. LEIBFRIED, J. CHIAVERINI, M. D. BARRETT, T. SCHAEZT, J. BRITTON, R. B. BLAKESTAD, D. HUME, W. M. ITANO, J. D. JOST, E. KNILL, C. LANGER, R. OZERI, R. REICHLER, S. SEIDELIN AND D. J. WINELAND
M60	QUANTUM COMPUTATION USING DIATOMIC QUBITS WITH CONDITIONAL DIPOLE-DIPOLE INTERACTION	CHAOHONG LEE AND ELENA A. OSTROVSKAYA

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M61	ATOM-HOLE CONDENSATION OF ULTRACOLD FERMI ATOMS IN OPTICAL LATTICES	CHAOHONG LEE
M62	AN ⁸⁷ Rb COLD ATOM INTERFEROMETRIC GRAVIMETER	P. CHEINET, F. PEREIRA DOS SANTOS, K. THERKILDSEN, J. LE GOÛET, A. CLAIRON, D. HOLLEVILLE AND A. LANDRAGIN
M63	LOADING OF SELECTED SITES IN AN OPTICAL LATTICE USING LIGHT-SHIFT ENGINEERING	P. F. GRIFFIN, K. J. WEATHERILL, S. G. MACLEOD, R. M. POTVLIEGE AND C. S. ADAMS
M64	2S HYPERFINE STRUCTURE MEASUREMENT IN HYDROGEN-LIKE ATOMS	N. KOLACHEVSKY, S.G. KARSHENBOIM, P. FENDEL, M. FISCHER, J. ALNIS AND T.W. HÄNSCH
M65	OBSERVATION OF THE PHASE TRANSITION FROM ION CLOUD TO ION CRYSTAL IN MINIATURE PAUL TRAP	KELIN GAO, HUALIN SHU, HUA GUAN AND XUEREN HUANG
M66	SYMMETRY BREAKING BETWEEN TWO DYNAMIC ATTRACTORS IN THE PARAMETRICALLY-DRIVEN MAGNETO-OPTICAL TRAP	KIHWAN KIM, MYOUNG-SUN HEO, KI-HWAN LEE, HEUNG-RYOUL NOH AND WONHO JHE
M67	OBSERVATION OF HOPF BIFURCATION AND NOISE-INDUCED TRANSITION IN PARAMETRICALLY DRIVEN TRAPPED ATOMS	KIHWAN KIM, MYOUNG-SUN HEO, KI-HWAN LEE, HEUNG-RYOUL NOH AND WONHO JHE
M68	LIGHT FLUCTUATIONS BY INTERACTION WITH AN ATOMIC VAPOR PRESENTING SELF-ROTATION	K. N. CASSEMIRO, L. S. CRUZ, M. MARTINELLI AND P. NUSSENZVEIG
M69	QUANTUM OPTICAL THEORY OF ORBITAL ANGULAR MOMENTUM	J. B. GÖTTE, S. FRANKE-ARNOLD AND STEPHEN M. BARNETT
M70	A PRECISION TEST OF RELATIVITY	J. P. COTTER AND B. T. H VARCOE
M71	A ROBUST METHOD FOR THE CREATION OF EQUAL SUPERPOSITIONS IN RUBIDIUM: A PULSE SCHEME FOR THE MOMENTUM STATE QUANTUM COMPUTER	J. E. BATEMAN AND T. FREEGARDE
M72	NEUTRAL ATOM QUANTUM REGISTER	I. DOTSENKO, W. ALT, L. FÖRSTER, M. KHUDAVERDYAN, D. MESCHÉDE, Y. MIROSHNYCHENKO, D. SCHRADER AND A. RAUSCHENBEUTEL
M73	TOWARDS SPIN SQUEEZING IN COLD ATOMIC ENSEMBLES	HERBERT CREPAZ, SEBASTIÁN DE ECHANIZ, MARCIN KUBASIK, MARCO KOSCHORRECK, MORGAN W. MITCHELL, JÜRGEN ESCHNER AND EUGENE S. POLZIK
M74	SUB-NATURAL LINEWIDTH RESONANCES FOR MAGNETOMETRY AND INTERFEROMETRY	G. T. PURVES, I. G. HUGHES AND C. S. ADAMS

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M75	TOWARDS MANY ATOM ENTANGLEMENT IN THE MICROMASER	G. J. WILKES, M. L. JONES, B. SANGUINETTI AND B. T. H VARCOE
M76	SLOW-LIGHT SOLITONS & QUANTUM MEASUREMENTS OF ATOMIC STATES	GARY F SINCLAIR, NATALIA KOROLKOVA AND ULF LEONHARDT
M77	HIGHLY POLARIZED PHOTONIC CRYSTAL FIBER LASER	FIONA C. MCNEILLIE, ERLING RIIS, JES BROENG, JACOB RIIS FOLKENBERG, ANDERS PETERSSON, HARALD SIMONSEN AND CHRISTIAN JACOBSEN
M78	COLD MOLECULE PRODUCTION VIA STARK DECELERATION	ERIC R. HUDSON, J.R. BOCHINSKI, H.J. LEWANDOWSKI, BRIAN C. SAWYER AND JUN YE
M79	SPECTROSCOPY OF FRANCIUM	E. GOMEZ, G. D. SPROUSE, A. PEREZ GALVAN, H. HWANG AND L. A. OROZCO
M80	ELEMENTARY EXCITATIONS OF A BOSE-EINSTEIN CONDENSATE IN THE PRESENCE OF AN EFFECTIVE MAGNETIC FIELD	D. R. MURRAY, P. ÖHBERG AND STEPHEN. M. BARNETT
M81	OPTICAL GUIDING USING HOLOGRAPHICALLY GENERATED LAGUERRE–GAUSSIAN LIGHT BEAMS AND HOLLOW CORE PHOTONIC CRYSTAL FIBERS	DAVID M. GHERARDI, DANIEL P. RHODES, JOHN G. LIVESEY, HANNAH MELVILLE, DAVID MCGLOIN, DONATELLA CASSETTARI, KISHAN DHOLAKIA, JONATHAN C. KNIGHT, FETAH BENABID, PHILIP ST. J. RUSSELL AND TIM FREEGARDE
M82	COLD ATOMS, INDIVIDUAL PHOTONS, AND FAST LASERS	DAVID L. MOEHRING, MARTIN J. MADSEN, BORIS B. BLINOV, RUDOLPH KOHN JR. AND CHRISTOPHER MONROE
M83	LASER COOLING OF RUBIDIUM IN A 3D CO ₂ LASER OPTICAL LATTICE	K. J. WEATHERILL, M. J. PRITCHARD, C. S. ADAMS AND E RIIS
M84	QUANTUM STATE RECONSTRUCTION IN THE MICROMASER	B. SANGUINETTI, M. L. JONES, G. J. WILKES AND B. T. H. VARCOE
M85	CARACTERIZATION OF A COLD ATOM GYROSCOPE	B. CANUEL, A. GAUGUET, F. LEDUC, D. HOLLEVILLE, N. DIMARCQ, A. CLAIRON AND A. LANDRAGIN
M86	THE MOTT-INSULATOR STATE AND NUMBER SQUEEZING FOR QUANTUM COMPUTATION	BEN FLETCHER, A. HARSONO, M. SHOTTER, M. YOON AND C. J. FOOT
M87	VERIFICATION OF MEASUREMENT BASIS IN EXPERIMENT OF ENTANGLEMENT IN ORBITAL ANGULAR MOMENTUM OF PHOTONS	DAISUKE KAWASE, SHIGEKI TAKEUCHI, KEIJI SASAKI, ATSUSHI WADA, YOKO MIYAMOTO AND MITSUO TAKEDA
M88	FEASIBILITY OF TWO-PHOTON SPECTROSCOPY OF THE H ₂ ⁺ AND HD ⁺ IONS FOR A NEW DETERMINATION OF THE PROTON/ELECTRON MASS RATIO	J. PH. KARR, S. KILIC AND L. HILICO

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M89	CONTROLLED PHOTON EMISSION AND RAMAN TRANSITION EXPERIMENTS WITH A SINGLE TRAPPED ATOM.	M. P. A. JONES, B. DARQUIÉ, J. BEUGNON, S. BERGAMINI, Y. SORTAIS G. MESSIN, A. BROWAEYS AND P. GRANGIER
M90	QUANTUM PHASE GATE USING SINGLE ATOM NONLINEARITY	SHIGEKI TAKEUCHI, HOLGER. F. HOFMANN, KUNIHIRO KOJIMA, HISAKI OKA, AKITO CHIBA, HIDEAKI TAKASHIMA, JUN-ICHI HOTTA AND KEIJI SASAKI
M91	THE 2S LAMB SHIFT IN MUONIC HYDROGEN AND THE PROTON RMS CHARGE RADIUS	A. ANTOGNINI, T.W. HÄNSCH, R. POHLF.D. AMARO, J.M.R. CARDOSO, C.A.N. CONDE, L.M.P. FERNANDES, C.M.B. MONTEIRO, J.M.F. DOS SANTOS, J.F.C.A. VELOSO, F. BIRABEN, P. INDELICATO, L. JULIEN, F. NEZ, C. SCHWOB, A. DAX, S. DHAWAN, V.-W. HUGHES, O. HUOT, P.E. KNOWLES, L. LUDHOVA, F. MULHAUSER, L.A. SCHALLER, F. KOTTMANN, Y.-W. LIU, P. RABINOWITZ AND D. TAQQU
M92	A FREQUENCY COMB IN THE EXTREME ULTRAVIOLET	C. GOHLE, T. UDEM, J. RAUSCHENBERGER, R. HOLZWARTH, M. HERRMANN, H. A. SCHUESSLER, F. KRAUSZ AND T. W. HÄNSCH
M93	CONTROL OF TRAPPED ION ENTANGLEMENT AND ADVANCED ION TRAPS	D. L. MOEHRING, M. ACTON, K.-A. BRICKMAN, L. DESLAURIERS, P. C. HALJAN, W. K. HENSINGER, D. HUCUL, P. J. LEE, M. J. MADSEN, C. MONROE, S. OLMSCHENK, D. STICK AND J. A. RABCHUK
M94	DOGHNUTS, DOUBLE CIGARS AND ACCELERATORS: NOVEL POTENTIALS FOR BOSE-EINSTEIN CONDENSATES	WOLF VON KLITZING
M95	INCREASING THE USEFUL ATOMIC FLUX OF A CONTINUOUS CESIUM FOUNTAIN FOR IMPROVED CLOCK STABILITY	M.D. PLIMMER, G. DI DOMENICO, N. CASTAGNA, F. FÜZESI, P. THOMANN, A.V. TAICHENACHEV, V.I. YUDIN AND G. DUDLE
M96	BOSE EINSTEIN CONDENSATES IN A PERMANENT MAGNETIC FILM ATOM CHIP	BRENTON HALL, SHANNON WHITLOCK, FALK SCHARNBERG, PETER HANNAFORD AND ANDREI SIDOROV

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POSTER No.	TITLE	AUTHORS
T1	ULTRACOLD BOSONIC STRONTIUM: PRECISION SPECTROSCOPY FOR THE $^1S_0 - ^3P_1$ CLOCK TRANSITION AND A PROPOSED EIT-BASED $^1S_0 - ^3P_0$ OPTICAL CLOCK	T. IDO, M. M. BOYD, A. D. LUDLOW, T. H. LOFTUS,, R. SANTRA, E. ARIMONDO, C. H. GREENE AND J. YE
T2	STATE-SELECTIVE DETECTION AND SPECTROSCOPY OF ULTRACOLD Rb ₂ AND KRb MOLECULES	E.E. EYLER, Y. HUANG, D. WANG, H. KIM, P.L. GOULD AND W.C. STWALLEY
T3	SPECTRALLY RESOLVED TWO COLOUR FEMTOSECOND PHOTON ECHO SPECTROSCOPY OF LIGHT HARVESTING CAROTENOID MOLECULES	LAP VAN DAO, MY THI TRA DO, MARTIN LOWE, PETER HANNAFORD, JUNJI AKAHANE AND YASUSHI KOYAMA
T4	EXPERIMENTAL DEMONSTRATION OF COHERENT POPULATION TRANSFER VIA A CONTINUUM	T. PETERS, T. HALFMANN L. P. YATSENKO AND L. P. YATSENKO
T5	ELECTRIC QUADRUPOLE SHIFT CANCELLATION IN SINGLE ION OPTICAL FREQUENCY STANDARDS USING THE ZEEMAN SPECTRUM	P. DUBÉ, A. A. MADEJ, J. E. BERNARD AND L. MARMET
T6	ATOMIC STATE INTERFERENCE WITH FAST HYDROGEN-LIKE ATOMS	V. G. PAL'CHIKOV, V. P. YAKOVLEV AND YU. L. SOKOLOV
T7	COMPARISON OF COMPACT MAGNETO-OPTICAL SOURCES OF SLOW RUBIDIUM ATOMS	YU. B. OVCHINNIKOV, W. CHALUPCZAK, K. SZYMANIEC, G. MARRA AND D. HENDERSON
T8	ENTANGLEMENT AND THE EINSTEIN-PODOLSKY ROSEN PARADOX WITH COUPLED INTRACAVITY OPTICAL DOWNCONVERTERS	M. K. OLSEN AND P. D. DRUMMOND
T9	ATOM OPTICS USING SOLID SURFACES AND SURFACE STRUCTURES	H. OBERST, D. KOUZNETSOV, K. SHIMIZU, F. SHIMIZU AND J. FUJITA
T10	THE CS PARITY VIOLATION EXPERIMENT IN PARIS: E_1^{PV} DETERMINATION WITHIN 2×10^{-13} ATOMIC UNITS	J. GUENA, M. LINTZ AND M.-A. BOUCHIAT
T11	ATOMIC INTERFEROMETER WITH COLD RUBIDIUM ATOMS FOR THE PRECISION MEASUREMENTS OF GRAVITATIONAL ACCELERATION	KEN'ICHI NAKAGAWA, MUNEKAZU HORIKOSHI AND YUSUKE KODA
T12	ELEMENTARY EXCITATIONS OF A BOSE-EINSTEIN CONDENSATE IN THE PRESENCE OF AN EFFECTIVE MAGNETIC FIELD	D. R. MURRAY, P. ÖHBERG AND STEPHEN. M. BARNETT
T13	OBSERVATION OF HEAVY PHOTON STATES IN LINEARLY ARRANGED SUPER-MONODISPERSIVE MICROSPHERES	TAKASHI MUKAIYAMA, YOSHIKO HARA, KENJI TAKEDA AND MAKOTO KUWATA-GONOKAMI
T14	ATOM TRAP, KRYPTON-81, AND SAHARAN WATER	P. MUELLER, N. C. STURCHIO, X. DU, R. PURTSCHERT, B. E. LEHMANN, M. SULTAN, L. J. PATTERSON, Z.-T. LU, T. BIGLER, K. BAILEY, T. P. O'CONNOR, L. YOUNG, R. LORENZO, R. BECKER, Z. EL ALFY, B. EL KALIOUBY, Y. DAWOOD AND AM. M. A. ABDALLAH

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T15	LASER SPECTROSCOPIC DETERMINATION OF THE NUCLEAR CHARGE RADIUS OF He-6 AND He-8	P. MUELLER, L.-B. WANG, K. BAILEY, J.P. GREENE, D. HENDERSON, R.J. HOLT, R.V.F. JANSSENS, C.L. JIANG, Z.-T. LU, T.P. O'CONNOR, R.C. PARDO, K.E. REHM, J.P. SCHIFFER, X.D. TANG AND G.W.F. DRAKE
T16	BOSE-EINSTEIN CONDENSATION UNDER MICROGRAVITATIONAL ENVIRONMENT	T. VAN ZOEST, E. M. RASEL, W. ERTMER, K. BONGS, A. VOGEL, M. SCHMIDT, K. SENGSTOCK, T. SCHULDT, W. LEWOCZKO, A. PETERS, T. STEINMETZ, J. REICHEL, T. KÖNEMANN, P. PRENGEL, W. BRINKMANN AND H. J. DITTUS, G. NANDI, R. WALSER AND W. SCHLEICH
T17	CASI- A GYROSCOPE BASED ON COLD ATOMS	T. MUELLER, T. WENDRICH, M. GILOWSKI, E. M. RASEL AND W. ERTMER
T18	PHASE DISTRIBUTION MEASUREMENTS OF PHASE-SINGULAR BEAM WITH FOURIER TRANSFORM FRINGE ANALYSIS AND POLARIZATION METHODS	Y. MIYAMOTO, T. YONEMURA, A. WADA, H. OHMINATO AND M. TAKEDA
T19	MAGNESIUM - TWO PHOTON COOLING AND UV LASER SOURCES BASED ON OCWOCS	W. ERTMER, J. FRIEBE, T.E. MEHLSTÄUBLER, K. MOLDENHAUER, N. REHBEIN, H. STOEHR AND E.M. RASEL
T20	USING COUNTER-INTUITIVE PULSE SEQUENCES TO IMPART MOMENTUM TO A BOSE-EINSTEIN CONDENSATE	C. MCKENZIE AND P. B. BLAKIE
T21	VELOCITY DISTRIBUTIONS OF COOLED ATOMS IN AN OPTICAL LATTICE	STEFAN PETRA, PEDER SJÖLUND, CLAUDE M. DION, SVANTE JONSELL AND ANDERS KASTBERG
T22	NONDESTRUCTIVE INTERFEROMETRIC CHARACTERIZATION OF AN OPTICAL DIPOLE TRAP	P. G. PETROV, D. OBLAK, C. L. G. ALZAR AND E. S. POLZIK
T23	DEDICATED FABRICATION FACILITY FOR IONCHIPS AND ATOM CHIPS	RON FOLMAN
T24	PROGRESS TOWARDS THE MEASUREMENT OF THE ELECTRIC DIPOLE MOMENT OF ²²⁵ Ra	J. R. GUEST, I. AHMAD, K. BAILEY, H. GOULD, J. P. GREENE, R. J. HOLT, Z.-T. LU, T. P. O'CONNOR, D. H. POTTERVELD, E. C. SCHULTE AND N. D. SCIELZO
T25	A MICROMASER QUANTUM COMPUTER	M. L. JONES, G. WILKES AND B. T. H. VARCOE
T26	INSTABILITY OF SOLUTIONS IN THE RIEMANN PROBLEM FOR BOSE EINSTEIN CONDENSATE	V. I. TSURKOV

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T27	OPTICS FOR SINGLE-ATOM DETECTION AND CAVITY QED ON AN ATOM CHIP	M. TRUPKE, J. ASHMORE, S. ERIKSSON, E. A. CURTIS, B. E. SAUER, E. A. HINDS, Z. MOKTADIR, C. O. GOLLASCH, E. KOUKHARENKO AND M. KRAFT
T28	DESIGN AND OPERATION OF A STARK DECELERATOR FOR HIGH-FIELD-SEEKING MOLECULES	M R TARBUTT, R V DARNLEY, J J HUDSON, B E SAUER AND E A HINDS
T29	SUB-HERTZ OPTICAL FREQUENCY COMPARISONS BETWEEN TWO TRAPPED $^{171}\text{Yb}^+$ IONS	CHRISTIAN TAMM, EKKEHARD PEIK AND TOBIAS SCHNEIDER
T30	OPTICAL TRAPPING OF ICE CRYSTAL	K. TAJI, M. TACHIKAWA AND K. NAGASHIMA
T31	COMPARISON OF PULSED AND CW DIPOLE TRAPS FOR CONFINING ULTRACOLD RUBIDIUM ATOMS	M. SHIDDIQ, C.E. LUCAS, M.D. HAVEY, C.I. SUKENIK, R.R. JONES, J.Y KIM, C.Y. PARK AND D. CHO
T32	FERMIONIC ATOMS IN AN OPTICAL LATTICE	T. STÖFERLE, H. MORITZ, K. GÜNTER, M.KÖHL AND T. ESSLINGER
T33	OPTICAL DIPOLE TRAPS FOR ULTRACOLD CALCIUM ATOMS	U. STERR, C. DEGENHARDT, T. NAZAROVA, CH. GRAIN, F. VOGT, F. RIEHLE AND CH. LISDAT
T34	SELECTIVE REFLECTION SPECTROSCOPY WITH A HIGHLY PARALLEL WINDOW: PHASE-TUNABLE HOMODYNE DETECTION OF THE RADIATED ATOMIC FIELD	A.V. PAPOYAN, G.G. GRIGORYAN, S.V. SHMAVONYAN, D. SARKISYAN, J. GUENA, M. LINTZ AND M.-A. BOUCHIAT
T35	MASS MEASUREMENTS OF ATOMIC AND MOLECULAR IONS IN A LINEAR PAUL TRAP	J. L. SØRENSEN, P. STAANUM, R. MARTINUSSEN, A. MORTENSEN AND M. DREWSSEN
T36	QUANTUM THEORY OF MATTER-WAVE DETECTION	NICHOLAS K. WHITLOCK, STEPHEN M. BARNETT, JOHN JEFFERS, AND JAMES D. CRESSER
T37	QUANTUM THEORY OF FRICTION	STEPHEN M. BARNETT AND JAMES D. CRESSER
T38	A TWO-SPECIES MIXTURE OF QUANTUM DEGENERATE BOSE GASES	P. TIERNEY, M. L. HARRIS AND S. L. CORNISH
T39	DETERMINISTIC IMPLANTATION OF SINGLE ATOMIC IONS INTO SOLIDS WITH NM SPATIAL RESOLUTION	K. SINGER, F. SCHMIDT-KALER, J. WRACHTRUP, F. JELEZKO, J. MEIJER AND B. BURCHARD
T40	QUANTUM-DEGENERATE MIXTURES OF LITHIUM AND RUBIDIUM GASES	C. SILBER, S. GÜNTHER, C. MARZOK, B. DEH, PH.W. COURTEILLE AND C. ZIMMERMANN
T41	COLLAPSE DYNAMICS OF A QUANTUM DEGENERATE FERMI-BOSE MIXTURE OF ^{87}Rb AND ^{40}K WITH LARGE PARTICLE NUMBERS	S. OSPELKAUS, C. OSPELKAUS, K. BONGS AND K. SENGSTOCK

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T43	PRECISION SPECTROSCOPY OF Al^+ USING QUANTUM LOGIC.	P. O. SCHMIDT, T. ROSEN BAND, J. C. J. KOELEMEIJ, Y. KOBAYASHI, T. M. FORTIER, S. A. DIDDAMS, W. M. ITANO, J. C. BERGQUIST AND D. J. WINELAND
T44	ATOMIC SPIN DECOHERENCE NEAR METALLIC AND SUPERCONDUCTING SURFACES	S. SCHEEL, P.K. REKDAL, P.L. KNIGHT AND E.A. HINDS
T45	DISSIPATIVE QUANTUM DYNAMICS OF BOSONIC ATOMS IN A SHALLOW 1D OPTICAL LATTICE	J. RUOSTEKOSKI AND L. ISELLA
T46	A CONTINUOUS RAMAN ATOM LASER	N. P. ROBINS, A. K MORRISON, C. FIGL AND J. D. CLOSE
T47	FOUR-WAVE MIXING WITH SELF-PHASE MATCHING IN A BOSE-EINSTEIN CONDENSATE	G.R.M. ROBB AND B.W.J. MCNEIL
T48	OBSERVATION OF BEC OF METASTABLE HELIUM ON AN MCP AND CCD DETECTOR	A. S. TYCHKOV, T. JELTES, J. M. MCNAMARA, R. J. W. STAS, P. J. J. TOL, W. HOGERVORST AND W. VASSEN
T49	PHASE SHIFTS IN PRECISION ATOM INTERFEROMETRY DUE TO A DIELECTRIC BACKGROUND OF COLD ATOMS	EDINA SARAJLIC, STEVEN CHU AND ANDREAS WICHT
T50	A POSITION SENSITIVE DETECTOR FOR OBSERVING BOSE-EINSTEIN CONDENSATES OF NEUTRAL ATOMS	M SCHELLEKENS, R HOPPELER, A PERRIN, J VIANA GOMES, D BOIRON, A ASPECT AND C WESTBROOK
T51	DISCOVERY OF Cs^*He_7 EXCIPLEXES IN SOLID 4He	A. WEIS, P. MOROSHKIN, D. NETTELS, A. HOFER AND S. ULZEGA
T52	ULTRALONG-RANGE INTERACTIONS IN A COLD RYDBERG GAS	M. REETZ-LAMOUR, T. AMTHOR, J. DEIGLMAYR, K. SINGER, L.G. MARCASSA AND M. WEIDEMÜLLER
T53	SPECTROSCOPY OF A SHAPE RESONANCE USING FESHBACH MOLECULES	T. VOLZ, S. DÜRR, N. SYASSEN, G. REMPE, E. VAN KEMPEN AND S. KOKKELMANS
T54	VIBRATIONAL IMAGING AND MICROSPECTROSCOPIES BASED ON COHERENT RAMAN SCATTERING MICROSCOPY	P. NANDAKUMAR, A. KOVALEV AND A. VOLKMER
T55	COOLING AND TRAPPING OF STRONTIUM ATOMS	D. WILKOWSKI, T. CHANELIÈRE, L. HE AND R. KAISER
T56	HELIUM 2^3P FINE STRUCTURE MEASUREMENT IN A DISCHARGE CELL	T. ZELEVINSKY, D. FARKAS AND G. GABRIELSE
T57	FREQUENCY MANIPULATION OF RETRIEVED LIGHT PULSES	YONG-FAN CHEN, SHIH-HAO WANG AND ITE A YU

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T59	EFFICIENT PHOTOIONISATION, PREPARATION AND COHERENT MANIPULATION OF TRAPPED ¹⁷¹ Yb ⁺ -IONS	CHR. BALZER, TH. HANNEMANN, CHR. WUNDERLICH, A. BRAUN, M. ETTLER, CHR. PAAPE AND W. NEUHAUSER
T60	SCALED-ENERGY SPECTROSCOPY OF BARIUM RYDBERG ATOMS IN AN ELECTRIC FIELD	M.S.ZHAN, J.W. CAO, H.P. LIU AND J.-P. CONNERADE
T61	TEST OF CONSTANCY OF SPEED OF LIGHT WITH ROTATING CRYOGENIC OPTICAL RESONATORS	P ANTONINI, M OKHAPKIN, E GÖKLÜ, A NEVSKY, C EISELE AND S SCHILLER
T62	ATOM NANOPROBE WITH A SINGLE PHOTON	VICTOR BALYKIN
T63	A PHOTONIC QUANTUM GATE BASED ON STRONG CAVITY COUPLING BETWEEN NANOCRYSTAL QUANTUM DOTS AND ULTRA HIGH-Q TOROIDAL MICRO-CAVITIES	MARK J. FERNÉE AND HALINA RUBINSZTEIN-DUNLOP
T64	QED CORRECTIONS TO THE PARITY-NONCONSERVING 6S-7S AMPLITUDE IN ¹³³ Cs	V. M. SHABAEV, I. I. TUPITSYN, V. A. YEROKHIN AND K. PACHUCKI
T65	INTERFERENCE OF INDEPENDENTLY CREATED BOSE EINSTEIN CONDENSATES AND ATOM LASERS	GIOVANNI CENNINI, CARSTEN GECKELER, GUNNAR RITT AND MARTIN WEITZ
T66	PHOTOIONIZATION CROSS-SECTION MEASUREMENTS OF THE ³ D ₃ STATE OF NEON IN A MAGNETO-OPTICAL-TRAP	J.P. ASHMORE, B.J.CLASSENS R.T SANG, W.R. MACGILLIVRAY, H.C.W BEIJERINCK AND E.J.D. VREDENBREGT
T67	CONTINUOUS-VARIABLE ENTANGLEMENT BETWEEN INTENSE TWIN BEAMS	A. S. VILLAR, L. S. CRUZ, K. N. CASSEMIRO, M. MARTINELLI AND P. NUSSENZVEIG
T68	COLD SR ATOMS FOR AN OPTICAL FREQUENCY STANDARD	P.E. POTTIE , T. BINNEWIES, H. STOEHR, U. STERR, J. HELMCKE AND F. RIEHLE
T69	PAIRING EFFECTS IN ULTRA-COLD FERMIONIC LITHIUM	J. MCKEEVER, L. TARRUELL, M. TEICHMANN, F. CHEVY, J. ZHANG, L. KHAYKOVICH, E.G.M. VAN KEMPEN, S.J.J.M.F KOKKELMANS AND C. SALOMON
T70	AN OCTAVE SPANNING TI:SAPPHIRE LASER FOR OPTICAL FREQUENCY MEASUREMENTS AND COMPARISONS	T. M. FORTIER, A. BARTELS AND S. A. DIDDAMS
T71	NARROW LINEWIDTH OPERATION OF A TUNABLE OPTICALLY PUMPED SEMICONDUCTOR LASER	KYLE S. GARDNER, RICHARD H. ABRAM, ERLING RIIS AND ALLISTER I.FERGUSON

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T73	ULTRA-COLD FERMIONIC STRONTIUM IN AN OPTICAL LATTICE	M. M. BOYD, T. IDO, A. D. LUDLOW, T. ZELEVINSKY, S. BLATT, M. NOTCUTT, J. L. HALL, S. FOREMAN AND J. YE
T74	ULTRA-COLD FERMIONIC ATOMS IN A MICROCHIP TRAP	M.H.T. EXTAVOUR, S. AUBIN, S. MYRSKOG, L. LEBLANC, I. B. CIESLAK, A. STUMMER AND J.H. THYWISSEN
T75	TOWARDS BOSE-EINSTEIN CONDENSATION WITH TUNABLE INTERACTIONS	M. J. PARKS, C. S. ADAMS AND S. L. CORNISH
T76	INVESTIGATION OF A RUBIDIUM-METASTABLE ARGON DUAL SPECIES MAGNETO-OPTICAL TRAP	M.K. SHAFFER, E. AHMED, H.C. BUSCH AND C.I. SUKENIK
T77	CHARACTERISATION OF Er:ZBNA MICROSPHERICAL LASERS	RUTH CAREY AND SÍLE NIC CHORMAIC
T78	RESONANT ACTIVATION IN A NONADIABATICALLY DRIVEN OPTICAL LATTICE	R. GOMMERS, P. DOUGLAS, S. BERGAMINI, M. GOONASEKERA, P.H. JONES AND F. RENZONI
T79	COHERENT CONTROL OF ELECTRONIC WAVE PACKETS IN H ₂	R. PATEL AND H. H. FIELDING
T80	QUANTUM STATE MANIPULATION WITH ULTRA-COLD ATOMS IN A 3D DOUBLE OPTICAL LATTICE	PEDER SJ ÖLUND, STEFAN PETRA, CLAUDE DION, SVANTE JONSELL AND ANDERS KASTBERG
T81	COHERENT CONTROL OF POPULATION FLOW IN A MOLECULAR LADDER SYSTEM	R. GARCIA-FERNANDEZ, B.W. SHORE, K. BERGMANN, A. EKERS, J. KLAVINS AND L.P. YATSENKO
T82	COHERENT TECHNIQUES FOR THE OPTICAL COOLING AND MANIPULATION OF ATOMS AND MOLECULES	SUNIL PATEL, JAMES BATEMAN, MATTHEW HIMSWORTH AND TIM FREEGARDE
T83	EXPERIMENTS WITH AN ULTRACOLD MIXTURE OF ⁸⁵ Rb AND ⁸⁷ Rb	S. B. PAPP, J. M. PINO II AND C. E. WIEMAN
T84	FEMTOSECOND SYNCHRONOUSLY MODE-LOCKED VERTICAL-EXTERNAL CAVITY SURFACE-EMITTING LASER	WEI ZHANG, MARC SCHIMID, NIGEL LANGFORD AND ALLISTER I. FERGUSON
T85	PHOTOIONISATION FOR STRONTIUM ION QIP	V. LETCHUMANAN, M. BROWNNUTT, P. GILL AND A.G. SINCLAIR
T86	DECELERATING COLD MOLECULES USING AN OPTICAL STARK DECELERATOR	A.I. BISHOP, R. FULTON AND P.F. BARKER
T87	SLOWING MOLECULES IN A PULSED OPTICAL LATTICE	A.I. BISHOP, R. FULTON, L. WANG AND P.F. BARKER
T88	FOCUSING GROUND STATE XENON IN A PULSED OPTICAL FIELD	A.I. BISHOP, R. FULTON AND P.F. BARKER

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T90	⁸⁵ Rb FESHBACH MOLECULES: PRODUCTION AND DECAY PROCESSES	C. E. WIEMAN, E. HODBY AND S. T THOMPSON
T91	A BEC STORAGE RING WITH AZIMUTHAL FIELD	C. S. GARVIE, E. RIIS AND A. S. ARNOLD
T92	AN ARRAY OF LASER-PUMPED CESIUM MAGNETOMETERS FOR MAGNETIC FIELD CONTROL IN A nEDM EXPERIMENT	P. KNOWLES, G. BISON, S. GROEGER, A. S. PAZGALEV, M. REBETEZ AND A. WEIS
T93	COHERENT MATTER-WAVE GRAVIMETER	FRANCOIS IMPENS, PHILIPPE BOUYER, ARNAUD LANDRAGIN AND CHRISTIAN J. BORDÉ
T94	FREQUENCY MEASUREMENT OF THE 661 NM TWO-PHOTON CLOCK TRANSITION IN ATOMIC SILVER	T. BADR, J.-P. WALLERAND, P. JUNCAR, M.E. HIMBERT, D.J.E. KNIGHT AND M.D. PLIMMER
T95	FREQUENCY STABILISATION OF MODE-LOCKED LASERS TO COLD ATOMS	MILAN MARIC AND ANDRE LUITEN
T96	CARS MICROSCOPY IN NANOSECONDS	CLARA MEUSBURGER, CHRISTOPH HEINRICH, STEFAN BERNET AND MONIKA RITSCH-MARTE
T97	INTERFEROMETRIC OBSERVATION OF P WAVE SCATTERING BETWEEN NON-IDENTICAL BOSONS IN AN ATOM COLLIDER	A. S. MELLISH, N. KJÆRGAARD, A. C. WILSON AND P. S. JULIENNE