

LIST OF PUBLICATIONS

A. Refereed Publications

- A1.** “Numerical optimization of DC wire parameters for mitigation of the long range beam-beam interactions in High Luminosity Large Hadron Collider” Skoufaris, K., Fartoukh, S., **Papaphilippou, Y.**, Poyet, A., Rossi, A., Sterbini, G., and Kaltchev, S., *Physical Review Accelerators and Beams*, **24:074001**, (2021).
- A2.** “Origin of the 50 Hz harmonics in the transverse beam spectrum of the Large Hadron Collider”, Kostoglou, S., Arduini, G., **Papaphilippou, Y.**, Sterbini, G. and Intelisano, L., *Physical Review Accelerators and Beams*, **24:034001**, (2021).
- A3.** “Impact of the 50 Hz harmonics on the beam evolution of the Large Hadron Collider”, Kostoglou, S., Arduini, G., **Papaphilippou, Y.**, Sterbini, G. and Intelisano, L., *Physical Review Accelerators and Beams*, **24:034002**, (2021).
- A4.** “Tune modulation effects for colliding beams in the High Luminosity Large Hadron Collider” Kostoglou, S., H Bartosik, H. **Papaphilippou, Y.**, Sterbini, G., Triantafyllou, N., *Physical Review Accelerators and Beams*, **23:121001**, (2020).
- A5.** “Impact of non-Gaussian beam profiles in the performance of hadron colliders”, Papadopoulou, S., Antoniou, F., Argyropoulos, T., Hostettler, M., **Papaphilippou, Y.** and Trad, G., *Physical Review Accelerators and Beams*, **23:101004**, (2020).
- A6.** “Identification and characterization of high order incoherent space charge driven structure resonances in the CERN Proton Synchrotron” Bartosik, H., Asvesta, F, Gilardoni, S., Huschauer, A., Machida, S., **Papaphilippou, Y.** and Wasef, R., *Physical Review Accelerators and Beams*, **23:091001**, (2020).
- A7.** “Space charge induced losses in the CERN injector complex” Bartosik, H., Asvesta, F, Huschauer, A., **Papaphilippou, Y.** and Schmidt, F., *Journal of Instrumentation*, **15** (07), P07021 (2020).
- A8.** “Emittance reduction with variable bending magnet strengths: Analytical optics considerations”, Papadopoulou, S., **Papaphilippou, Y.** and Antoniou, F., *Physical Review Accelerators and Beams*, **22:091601**, (2019).
- A9.** “Refined betatron tune measurements by mixing beam position data”, Zisopoulos, P., **Papaphilippou, Y.** and Laskar, J., *Physical Review Accelerators and Beams* **22:071002**, (2019).
- A10.** “Luminosity scans for beam diagnostics”, Hostettler, M., Fuchsberger, K., Papotti, G. **Papaphilippou, Y.**, Pieloni, T., *Physical Review Accelerators and Beams*, **21**, 102801 (2018).
- A11.** “Refining the HL-LHC Operational Settings with Inputs From Dynamic Aperture Simulations: A Progress Report”, Karastathis, N., De Maria, R., Fartoukh, S., **Papaphilippou, Y.**, Pellegrini, D., *Journal of Physics: Conference Series*, **1067** (2), 022005, (2018).
- A12.** “Crossing angle anti-leveling at the LHC in 2017”, Karastathis, N., Fuchsberger, K., Hostettler, M., **Papaphilippou, Y.**, Pellegrini, D., *Journal of Physics: Conference Series*, **1067** (2), 022004, (2018).
- A13.** “Simulation of beam-beam interaction with crab cavities for LHC upgrade”, Qiang, J., Paret, S., Ratti, A., Barranco, J., Pieloni, T., Arduini, G., Buffat, X., **Papaphilippou, Y.**, *Nuclear Instrumentation and Methods in Physics Research A*, **900**, 53-59 (2018).

- A14.** “Longitudinally variable field dipole design using permanent magnets for CLIC damping rings”, Martinez, M., Toral, F., Ghasem, H., Papadopoulou., S., **Papaphilippou, Y.**, *IEEE Transactions on Applied Superconductivity*, 28(3):1-4, (2018).
- A15.** “Top-up injection schemes for future circular lepton collider”, Aiba, M., Saá Hernández, A., Goddard, B., **Papaphilippou, Y.** Zimmermann, F., Oide, K., Shwartz, D., *Nuclear Instrumentation and Methods in Physics Research A*, **880**, 98 (2017).
- A16.** “High Luminosity LHC: challenges and plans”, Arduini, G. *et al*, *Journal of Instrumentation*, **11** (2016).
- A17.** “Design of beam optics for the future circular collider e+ e- collider rings”, Oide, K. *et al*, *Physical Review Special Topics - Accelerators and Beams* **19**, 111005 (2016).
- A18.** “Design of Nb₃Sn Wiggler Magnets for the Compact Linear Collider and Manufacturing of a Five-Coil Prototype”, Garcia Fajardo, L., Antoniou, F., Bernhard, A., Ferracin, P., Mazet, J., Papadopoulou., S., **Papaphilippou, Y.**, Pérez, J.C., Schoerling, D., *IEEE Transactions on Applied Superconductivity*, 26(4):1-1, (2016).
- A19.** “Parametric study of transport beam lines for electron beams accelerated by laser-plasma interaction”, Sciscio, M., Lancia, L., Migliorati, M., Mostacci, A., Palumbo, L., **Papaphilippou, Y.** and Antici, P., *Journal of Applied Physics*, **119**, 9, 094905 (2016).
- A20.** “Compensation of the long-range beam-beam interactions as a path towards new configurations for the high luminosity LHC”, Fartoukh, S., Valishev A., **Papaphilippou, Y.** and Shatilov, D., *Physical Review Special Topics - Accelerators and Beams* **18**, 121001 (2015).
- A21.** “The LBNO long-baseline oscillation sensitivities with two conventional neutrino beams at different baselines”, Agarwalla, A. *et al* (LAGUNA-LBNO study group), arXiv preprint arXiv:1412.0804, (2014).
- A22.** “Optimised sensitivity to leptonic CP violation from spectral information: the LBNO case at 2300 km baseline”, Agarwalla, A. *et al* (LAGUNA-LBNO study group), arXiv preprint arXiv:1412.0593, (2014).
- A23.** “The Spallation Neutron Source accelerator system design”, Henderson, S. *et al*, *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, , June 5, **763**, p. 610-673 (2014).
- A24.** Review paper on “Detecting chaos in particle accelerators through the frequency map analysis method”, **Papaphilippou, Y.**, *Chaos*, **24**, 024412, (2014). Selected as **featured** paper.
- A25.** “Analytical considerations for the linear and nonlinear optimization of the TME cells: Application to the CLIC pre-damping rings”, Antoniou, F., **Papaphilippou, Y.** *Physical Review Special Topics - Accelerators and Beams*, **17** (6), 064002, (2014).
- A26.** “The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment”, Agarwalla, A. *et al* (LAGUNA-LBNO study group), *Journal of High Energy Physics*05, **94**, (2014).
- A27.** “A Large Hadron Electron Collider at CERN Report on the Physics and Design Concepts for Machine and Detector”, Abelleira Fernandez, J.L., *et al* (LHeC study group), *Journal of Physics G: Nuclear and Particle Physics*, **39**, 075001 (2012).
- A28.** “Observation of Picometer Vertical Emittance with a Vertical Undulator”, Wootton, K. P., Boland, M. J., Dowd, R., Tan, Y.-R. E., Cowie, B.C.C., **Papaphilippou, Y.**, Taylor, G.N., and Rassool, R. P., *Physical Review Letters*, **109**, 194801 (2012).

- A29.** “Efficient control of Accelerator Maps”, Boreux, J., Carletti, T., Skokos, C., **Papaphilippou, Y.**, Vittot, M., *International Journal of Bifurcation and Chaos*, **22**, 1250219 (2012) .
- A30.** “Design and System Integration of the Superconducting Wiggler Magnets for the CLIC Damping Rings”, Schoerling, D., Antoniou, F., Bernhard, A., Bragin, A., Karppinen, M., Maccaferri, R., Mezentsev, N., **Papaphilippou, Y.**, Peiffer, P., Rossmannith, R., Rumolo, G., Russenschuck, S., Vobly, P., Zolotarev, K., *Physical Review Special Topics - Accelerators and Beams*, **15**, 042401 (2012).
- A31.** “Deflections in magnet fringe fields”, **Papaphilippou, Y.**, Wei, J., Talman, R., *Physical Review E* **67:046502**, (2003).
- A32.** “Evolution of the Spallation Neutron Source ring lattice”, Wei, J., Catalan-Lasheras, N., Fedotov, A. V., Gardner, C., Lee, Y. Y., **Papaphilippou, Y.**, Raparia, D., Tsoupas, N., Holmes, J., in the Proceedings of the workshop on “*Non-linear and Collective Phenomena in Beam Physics*”, Fermilab, Chicago, USA, April 2002, eds. W. Cho and C. Pellegrini, AIP Conference Proceedings **642**, 157-159 (2002).
- A33.** “Estimates of diffusion due to long-range beam-beam collisions”, **Papaphilippou, Y.**, Zimmermann, F., *Physical Review Special Topics - Accelerators and Beams*, **5:074001**, (2002).
- A34.** “Low-Loss design for the high-intensity accumulator ring of the Spallation Neutron Source”, Wei, J., Abell, D. T., Beebe-Wang, J., Blaskiewicz, M., Cameron, P. R., Catalan-Lasheras, N., Danby, G., Fedotov, A. V., Gardner, C., Jackson, J., Lee, Y. Y., Ludewig, H., Malitsky, N., Meng, W., **Papaphilippou, Y.**, Raparia, D., Tsoupas, N., Weng, W. T., Witkov, R. L., Zhang S. Y., *Physical Review Special Topics - Accelerators and Beams* **3:080101**, (2000).
- A35.** “Weak-strong beam-beam simulations for the LHC”, **Papaphilippou, Y.**, Zimmermann, F., *Physical Review Special Topics - Accelerators and Beams* **2:104001**, (1999).
- A36.** “Normal form approaches and resonance analysis of LHC models”, **Papaphilippou, Y.**, Schmidt, F., in the Proceedings of the workshop on “*Non-linear and Collective Phenomena in Beam Physics*”, Arcidosso, Italy, September 1998, eds. S. Chattopadhyay, M. Cornacchia and C. Pellegrini, AIP Conference Proceedings **468**, 107-118 (1999); also published as *LHC project report*, **255** (1998).
- A37.** “Global dynamics of triaxial galactic models through frequency map analysis”, **Papaphilippou, Y.**, Laskar, J., *Astronomy and Astrophysics* **329**, 451-481 (1998).
- A38.** “Frequency map analysis and global dynamics in a galactic potential with two degrees of freedom”, **Papaphilippou, Y.**, Laskar, J., *Astronomy and Astrophysics* **307**, 427-449 (1996).

B. Publications in Conference Proceedings

- B1.** “LHC Luminosity Modeling for RUNII”, Antoniou, F. *et al*, in the proceedings of the *7th International Particle Accelerator Conference (IPAC'16)*, Busan, Korea, May 8-13, 2016, p. 1403.
- B2.** “Nonlinear Optimization Of Clic Drs New Design With Variable Bends And High Field Wigglers”, Ghasem, H., Antoniou, F., Alabau-Gonzalvo, J., Papadopoulou, S., **Papaphilippou, Y.**, in the proceedings of the *7th International Particle Accelerator Conference (IPAC'16)*, Busan, Korea, May 8-13, 2016, p. 3484.

- B3.** “Design Guidelines for the Injector Complex of the FCC-ee”, **Papaphilippou, Y.**, Zimmermann, F., Rinolfi, L., Aiba, M., Shwartz, S., Oide, K., in the proceedings of the *7th International Particle Accelerator Conference (IPAC’16)*, Busan, Korea, May 8-13, 2016, p. 3488.
- B4.** “Implementation of High Order Symplectic Integrators with Positive Steps in Tracking Programs”, Skoufaris, K., Laskar, J., Papaphilippou, Y., Skokos, C., in the proceedings of the *7th International Particle Accelerator Conference (IPAC’16)*, Busan, Korea, May 8-13, 2016, p. 2416.
- B5.** “Design of Beam Optics for the FCC-ee Collider Ring”, Oide, K., *et al*, in the proceedings of the *7th International Particle Accelerator Conference (IPAC’16)*, Busan, Korea, May 8-13, 2016, p. 3821.
- B6.** “Beam-beam Simulation of Crab Cavity with Frequency Dependent Noise for LHC Upgrade”, Qiang, J., *et al*, in the proceedings of the *7th International Particle Accelerator Conference (IPAC’16)*, Busan, Korea, May 8-13, 2016, p. 1691.
- B7.** “Modelling and Measurements of Bunch Profiles at the LHC Flat Bottom”, Papadopoulou, S., Antoniou, F., Muller, J., **Papaphilippou, Y.**, Trad, G., in the proceedings of the *7th International Particle Accelerator Conference (IPAC’16)*, Busan, Korea, May 8-13, 2016, p. 1477.
- B8.** “A CLIC Damping Wiggler Prototype at ANKA: Commissioning and Preparations for a Beam Dynamics Experimental Program”, Bernhard, A., *et al*, in the proceedings of the *7th International Particle Accelerator Conference (IPAC’16)*, Busan, Korea, May 8-13, 2016, p. 2412.
- B9.** “First LHC Emittance Measurements at 6.5 TeV” M Kuhn, M., Antoniou, F., Bravin, E., Dehning, B., Emery, J., Kain, V., Lagner A., **Papaphilippou, Y.**, Piseli, E., Trad, G., in the proceedings of the *4th International Beam Instrumentation Conference (IBIC2015)*, Melbourne, Australia, 13-17 September 2015, p. 562.
- B10.** “Low Emittance Tuning for the CLIC Damping Rings”, Alabau-Gonzalvo, J., Antoniou, F., **Papaphilippou, Y.**, in the proceedings of the “*6th International Particle Accelerator Conference 2015*”, Richmond, VA, USA, May 2015, MOPJE034.
- B11.** “The accumulator of the ESSNUSB for neutrino production”, Wildner, E., Holzer, B., Martini, M., **Papaphilippou, Y.**, H Schönauer, H., Eshraqi, M., Ekelöf, T., Olvegard, M., Ruber, R., in the proceedings of the “*6th International Particle Accelerator Conference 2015*”, Richmond, VA, USA, May 2015, THPF100.
- B12.** “Alternative Optics Design of the CLIC Damping Rings with Variable Dipole Bends and High-Field Wigglers”, Papadopoulou, S., Antoniou, F., **Papaphilippou, Y.**, in the proceedings of the “*6th International Particle Accelerator Conference 2015*”, Richmond, VA, USA, May 2015, TUPTY022.
- B13.** “Beam dynamics studies to develop high-energy luminosity model for the LHC”, Campogiani, G., **Papaphilippou, Y.**, in the proceedings of the “*6th International Particle Accelerator Conference 2015*”, Richmond, VA, USA, May 2015, MOPWA050.
- B14.** “Transverse Tunes Determination from Mixed BPM Data”, Zisopoulos, P., **Papaphilippou, Y.**, Antoniou, F., Müller, A. S., Hertle, E., in the proceedings of the “*6th International Particle Accelerator Conference 2015*”, Richmond, VA, USA, May 2015, TUPJE042.

- B15.** “Building a Luminosity Model for the LHC and HL-LHC”, Antoniou, F., Arduini, G., **Papaphilippou, Y.**, Papotti, G., in the proceedings of the “*6th International Particle Accelerator Conference 2015*”, Richmond, VA, USA, May 2015, TUPTY020.
- B16.** SCENARIOS FOR CIRCULAR GAMMA-GAMMA HIGGS FACTORIES Aleksan, R., Apyan, A., **Papaphilippou, Y.**, Zimmermann, F., in the proceedings of the “*6th International Particle Accelerator Conference 2015*”, Richmond, VA, USA, May 2015, TUPTY057.
- B17.** “Operational Beams for the LHC”, **Papaphilippou, Y.**, Bartosik, H., Rumolo, G., Manglunki, D., arXiv preprint arXiv:1309.6494, to be published in the proceedings of the *LHC Performance Workshop 2014*, Chamonix, France, 22-25 Sep 2014, 2014.
- B18.** “Protons: Baseline and Alternatives, Studies Plan”, Rumolo, G. *et al*, to be published in the proceedings of the *LHC Performance Workshop 2014*, Chamonix, France, 22-25 Sep 2014, 2014.
- B19.** “Other Means To Increase the SPS 25 ns Performance - Transverse Plane” Bartosik, H. *et al*, to be published in the proceedings of the *LHC Performance Workshop 2014*, Chamonix, France, 22-25 Sep 2014, 2014.
- B20.** “Transverse emittance through the LHC cycle-an update”, Kuhn, M., Arduini, G., Kain, V., Langner, A., **Papaphilippou, Y.**, Papotti, G., Schaumann, M., to be published in the proceedings of the *2014 Evian Workshop on LHC beam operation*, Evian, France, 29 - 31 Jun 2014,
- B21.** “LIU: Exploring alternative ideas”, Damerou, H. *et al*, in the proceedings of the *RLIUP: Review of LHC and Injector Upgrade Plans Workshop*, Centre de Convention, Archamps, France, 29 - 31 Oct 2013, pp.127-137.
- B22.** “Can we ever reach the HL-LHC requirements with the injectors?”, Bartosik, H. in the proceedings of the *RLIUP: Review of LHC and Injector Upgrade Plans Workshop*, Centre de Convention, Archamps, France, 29 - 31 Oct 2013, pp.95-104.
- B23.** “Expected performance in the injectors at 25 ns without and with LINAC4”, Rumolo, G. *et al*, in the proceedings of the *RLIUP: Review of LHC and Injector Upgrade Plans Workshop*, Centre de Convention, Archamps, France, 29 - 31 Oct 2013, pp.17-24.
- B24.** “Optics Design of the High-power Proton Synchrotron for LAGUNA-LBNO”, **Papaphilippou, Y.**, Alabau-Gonzalvo, J., Alekou, A., and Antoniou, F., Efthymiopoulos, I., Steerenberg, R., in the proceedings of the “*5th International Particle Accelerator Conference 2014*”, Dresden, Germany, May 2014, THPME068.
- B25.** “Origins of Transverse Emittance Blow-Up During The LHC Energy Ramp”, Kuhn, M., Arduini, G., and Kain, V., and Langner, A and Papaphilippou, Y and Schaumann, M and Tomas, R, in the proceedings of the “*5th International Particle Accelerator Conference 2014*”, Dresden, Germany, May 2014, TUPRO010.
- B26.** “TMCI thresholds for LHC single bunches in the CERN SPS and comparison with simulations”, Bartosik, H., Zannini, C., **Papaphilippou, Y.**, Rumolo, G., Salvant, B., Iadarola, G., in the proceedings of the “*5th International Particle Accelerator Conference 2014*”, Dresden, Germany, May 2014, TUPME026.
- B27.** “Frequency maps analysis of tracking and experimental data for the SLS storage ring”, Zisopoulos, P and Papaphilippou, Y and Ziemann, V and Antoniou, F and Streun, A, in the proceedings of the “*5th International Particle Accelerator Conference 2014*”, Dresden, Germany, May 2014, THPRO076.

- B28.** “SPS beam steering for LHC extraction”, Gianfelice-Wendt, E. *et al*, in the proceedings of the “*5th International Particle Accelerator Conference 2014*”, Dresden, Germany, May 2014, WEPRO068.
- B29.** “High-Power Proton Synchrotron collimation studies”, Alekou, A., **Papaphilippou, Y.** and Spitzbart, D., in the proceedings of the “*5th International Particle Accelerator Conference 2014*”, Dresden, Germany, May 2014, MOPRI109.
- B30.** “Progress on Low Emittance Tuning For The CLIC Damping Rings”, Alabau-Gonzalvo, J and Bartosik, H, and **Papaphilippou, Y.**, in the proceedings of the “*5th International Particle Accelerator Conference 2014*”, Dresden, Germany, May 2014, TUPME025.
- B31.** “Benchmarking HEADTAIL with electron cloud instabilities observed in the LHC”, Bartosik, H., Hofle, W., Iadarola, G., **Papaphilippou, Y.** and Rumolo, G., arXiv preprint arXiv:1309.6494, published in the proceedings of the *Joint INFN-CERN-EuCARD-AccNet Workshop on Electron-Cloud Effects: E-CLOUD’12*, La Biodola, Isola d’Elba, Italy, 5-9 Jun 2012, CERN Yellow Report CERN-2013-002, pp.211-217.
- B32.** “Optics Optimization for Reducing Collective Effects and Raising Instability Thresholds in Lepton and Hadron Rings”, **Papaphilippou, Y.**, Antoniou, F., Bartosik, H., in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, WEXB101.
- B33.** “Operational Performance of the LHC Proton Beams with the SPS Low Transition Energy Optics”, **Papaphilippou, Y.**, G. Arduini, T. Argyropoulos, W. Bartmann, H. Bartosik, T. Bohl, C. Bracco, S. Cettour-Cave, K. Cornelis, L.N. Drosdal, J.F. Esteban Müller, B. Goddard, A. Guerrero, W. Höfle, V. Kain, G. Rumolo, B. Salvant, E.N. Shaposhnikova, H. Timko, D. Valuch, G. Vanbavinckhove, J. Wenninger, E. Gianfelice-Wendt, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, THPWO080.
- B34.** “Design Options of a High-power Proton Synchrotron for LAGUNA-LBNO”, **Papaphilippou, Y.**, J. Alabau-Gonzalvo, A. Alekou, F. Antoniou, M. Benedikt, I. Efthymiopoulos, R. Garoby, F. Gerigk, B. Goddard, C. Lazaridis, A.S. Parfenova, E.N. Shaposhnikova, R. Steerenberg, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, THPWO081.
- B35.** “The SPS as an Ultra-low Emittance Damping Ring Test Facility for CLIC”, **Papaphilippou, Y.**, R. Corsini, L.R. Evans, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, TUPME042.
- B36.** “Beam Transfer Systems for the LAGUNA-LBNO Long Baseline Neutrino Beam from the CERN SPS”, B. Goddard, W. Bartmann, I. Efthymiopoulos, **Papaphilippou, Y.**, A.S. Parfenova, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, MOPFI051.
- B37.** “Optics and Protection of the Injection and Extraction Regions of the CLIC Damping Rings”, R. Apsimon, B. Balhan, M.J. Barnes, J. Borburgh, B. Goddard, **Papaphilippou, Y.**, J.A. Uythoven, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, MOPWO025.
- B38.** “Turn-by-turn Measurements in the KEK-ATF”, Y. Renier, **Papaphilippou, Y.**, R. Tomas, M. Wendt, N. Eddy, K. Kubo, S. Kuroda, T. Naito, T. Okugi, N. Terunuma, J. Urakawa, in

the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, TUPME045.

- B39.** “Performance of SPS Low Transition Energy Optics for LHC Ion Beams”, F. Antoniou, G. Arduini, H. Bartosik, T. Bohl, S. Cettour Cave, K. Cornelis, D. Manglunki, **Papaphilippou, Y.**, in the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, TUPME046.
- B40.** “Analysis of LHC Transfer Line Trajectory Drifts”, L.N. Drosdal, W. Bartmann, H. Bartosik, C. Bracco, B. Goddard, V. Kain, **Papaphilippou, Y.**, J.A. Uythoven, G. Vanbavinckhove, J. Wenninger, E. Gianfelice-Wendt, in the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, MOPWO033.
- B41.** “Beam Optics Measurements through Turn by turn Beam Position Data in the SLS”, P. Zisopoulos, **Papaphilippou, Y.**, A. Streun, V.G. Ziemann, in the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, WEPEA067.
- B42.** “The First LHC p-Pb run: Performance of the Heavy Ion Production Complex”, D. Manglunki, M. E. Angoletta, H. Bartosik, G. Bellodi, A. Blas, M.A. Bodendorfer, T. Bohl, C. Carli, E. Carlier, S. Cettour Cave, K. Cornelis, H. Damerau, A. Findlay, S.S. Gilardoni, S. Hancock, J.M. Jowett, D. Kuchler, M. O’Neil, **Papaphilippou, Y.**, S. Pasinelli, R. Scrivens, G. Tranquille, B. Vandenborgh, U. Wehrle, J. Wenninger, in the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, WEPEA061.
- B43.** “Design and Beam Measurements of Modified Fast Extraction Schemes in the CERN PS for Installing a Dummy Septum to Mitigate Ring Irradiation”, C. Hernalsteens, H. Bartosik, L.N. Drosdal, S.S. Gilardoni, M. Giovannozzi, A. Lachaize, **Papaphilippou, Y.**, A. Ul-roed, in the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, WEPEA056.
- B44.** “Plans for the Upgrade of CERN’s Heavy Ion Complex”, D. Manglunki, M. E. Angoletta, H. Bartosik, A. Blas, D. Bodart, M.A. Bodendorfer, T. Bohl, J. Borburgh, E. Carlier, J.-M. Cravero, H. Damerau, L. Ducimetière, A. Findlay, R. Garoby, S.S. Gilardoni, B. Goddard, S. Hancock, E.B. Holzer, J.M. Jowett, T. Kramer, D. Kuchler, A.M. Lombardi, **Papaphilippou, Y.**, S. Pasinelli, R. Scrivens, G. Tranquille, in the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, WEPEA060.
- B45.** “Beam Coupling Impedance Localization Technique Validation and Measurements in the CERN Machines”, N. Biancacci, G. Arduini, T. Argyropoulos, H. Bartosik, R. Calaga, K. Cornelis, S.S. Gilardoni, N. Mounet, E. Métral, **Papaphilippou, Y.**, S. Persichelli, G. Rumolo, B. Salvant, G. Sterbini, R. Tomas, R. Wasef, M. Migliorati, L. Palumbo, in the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, THOBB102.
- B46.** “Design Study for a Future LAGUNA-LBNO Long-baseline Neutrino Facility at CERN”, I. Efthymiopoulos, J. Alabau-Gonzalvo, A. Alekou, F. Antoniou, M. Benedikt, M. Calviani, A. Ferrari, R. Garoby, F. Gerigk, S.S. Gilardoni, B. Goddard, A. Kosmicki, C. Lazaridis, J.A. Osborne, **Papaphilippou, Y.**, A.S. Parfenova, E.N. Shaposhnikova, R. Steerenberg, P. Velten, H. Vincke, in the proceedings of the “4th International Particle Accelerator Conference 2013”, Shanghai, China, May 2013, THPFI056.

- B47.** “Beam Transfer to LHC with the Low Gamma-transition SPS Optics”, G. Vanbavinckhove, W. Bartmann, H. Bartosik, C. Bracco, L.N. Drosdal, B. Goddard, V. Kain, M. Meddahi, V. Mertens, **Papaphilippou, Y.**, J.A. Uythoven, J. Wenninger, E. Gianfelice-Wendt, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, MOPFI060.
- B48.** “Experimental Studies for Future LHC Beams in the SPS”, H. Bartosik, T. Argyropoulos, T. Bohl, S. Cettour-Cave, J.F. Esteban Müller, W. Höfle, G. Iadarola, **Papaphilippou, Y.**, G. Rumolo, B. Salvant, F. Schmidt, E.N. Shaposhnikova, H. Timko, A.Y. Molodozhentsev, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, TUPME034.
- B49.** “Progress with the Upgrade of the SPS for the HL-LHC Era”, B. Goddard, T. Argyropoulos, W. Bartmann, H. Bartosik, T. Bohl, F. Caspers, K. Cornelis, H. Damerau, L.N. Drosdal, L. Ducimetière, J.F. Esteban Müller, R. Garoby, M. Gourber-Pace, W. Höfle, G. Iadarola, L.K. Jensen, V. Kain, R. Losito, M. Meddahi, A. Mereghetti, V. Mertens, O. Mete, E. Montesinos, **Papaphilippou, Y.**, G. Rumolo, B. Salvant, E.N. Shaposhnikova, M. Taborelli, H. Timko, F.M. Velotti, E. Gianfelice-Wendt, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, WEPEA053.
- B50.** “SixTrack-Fluka Active Coupling for the Upgrade of the SPS Scrapers”, A. Mereghetti, F. Cerutti, R. De Maria, B. Goddard, V. Kain, M. Meddahi, O. Mete, **Papaphilippou, Y.**, D. Pastor Sinuela, V. Vlachoudis, R. Appleby, in the proceedings of the “*4th International Particle Accelerator Conference 2013*”, Shanghai, China, May 2013, WEPEA064.
- B51.** “Vertical Emittance Measurements using a Vertical Undulator”, Wootton, K.P. Rassool, R. P. Taylor, G., Boland, M. J., Cowie, B. C. C., Dowd, R. T., Tan, Y. E., **Papaphilippou, Y.**, in the proceedings of the “*International Beam Instrumentation Conference 2012*”, Tsukunba , Japan, October 2012.
- B52.** “Benchmarking Headtail With Electron Cloud Instabilities Observed in the LHC”, Bartosik, H. Höfle, W., Iadarola, G., **Papaphilippou, Y.** and Rumolo, G., in the proceedings of the workshop “*E-CLOUD 2012*”, La Biodola , Italy, June 2012.
- B53.** “Optics Design Optimization for IBS Dominated Beams”, Antoniou, F., **Papaphilippou, Y.**, Demma, T., Milas, N., Streun, A., Pivi, M.T., in the proceedings of the “*High-Intensity and High-Brightness Hadron Beams 2012*”, Beijing , China, September 2012, WEO1B02.
- B54.** “Low Gamma Transition Optics for the SPS: Simulation and Experimental Results for High Brightness Beams”, Bartosik, H., Arduini, G., Argyropoulos, T., Bohl, T., Cornelis, K., Esteban Muller, J, Höfle, W., Li,K.S.B., **Papaphilippou, Y.**, Rumolo, G., Salvant, B., Schmidt, F., Shaposhnikova, E., Timko, H., Molodozhentsev A.Y., in the proceedings of the “*High-Intensity and High-Brightness Hadron Beams 2012*”, Beijing , China, September 2012, WEO1B01.
- B55.** “CERN High-Power Proton Synchrotron Design Study for LAGUNA-LBNO Neutrino Production”, Steerenberg, R., Benedikt, M., Efthymiopoulos, I., Gerigk, F., **Papaphilippou, Y.**, in the proceedings of the “*High-Intensity and High-Brightness Hadron Beams 2012*”, Beijing , China, September 2012, MOP244.
- B56.** “The High Intensity/High Brightness Upgrade Program at CERN: Status and Challenges”, Gilardoni, S.S., *et al.*, in the proceedings of the “*High-Intensity and High-Brightness Hadron Beams 2012*”, Beijing , China, September 2012, TUO1A01.

- B57.** “Post LS1 25 ns and 50 ns Options from the Injectors”, Steerenberg, R., *et al*, in the proceedings of the *4th LHC beam operation workshop - Evian 2012*, 17 - 20 Dec 2012, Evian-les-Bains, France, pp. 187-192.
- B58.** “Intrabeam scattering studies at the Swiss light source”, Antoniou, F., **Papaphilippou, Y.**, Aiba, M., Boege, M., in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B59.** “Collective effects in the LHC and its injectors”, Metral, E., Arduini, G., Assmann, R., Bartosik, H., Baudrenghien, P., Bohl, T., Bruning, O., Buffat, X., Damerou, H., Fartoukh, S., Gilardoni, S., Goddard, B., Hancock, S., Herr, W., Hofle, W., Mounet, N., **Papaphilippou, Y.**, Pieloni, T., Rumolo, G., Salvant, B., Shaposhnikova, E., Zimmermann, F., Burov, A., in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B60.** “Design Parameters of a High-Power Proton Synchrotron for Neutrino Beams at CERN”, **Papaphilippou, Y.**, Benedikt, M., Efthymiopoulos, I., Gerigk, F., Steerenberg, R., in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B61.** “Parametric study of the CLIC damping rings delay ring for reaching isochronicity conditions”, Zisopoulos, P., Antoniou, F., **Papaphilippou, Y.**, in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B62.** “Increasing instability thresholds in the SPS by lowering transition energy”, Bartosik, H., Arduini, G., Argyropoulos, T., Bohl, T., Cettour-Cave, S., Cornelis, K., Esteban Muller, J., Hofle, W., **Papaphilippou, Y.**, Rumolo, G., Salvant, B., Shaposhnikova, E., in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B63.** “Conceptual Design of the CLIC Damping Rings”, **Papaphilippou, Y.**, *et al* in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B64.** “Non-Linear Beam Dynamics Tests at the CERN PS in the Framework of the Multi-Turn Extraction”, Arduini, G., Belleman, J., Gilardoni, S., Giovannozzi, M., Hernalsteens, C., Lachaize, A., Metral, G., **Papaphilippou, Y.**, in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B65.** “Positron Options for the Linac-Ring LHeC”, Zimmermann, F (CERN) ; Brüning, O.S., **Papaphilippou, Y.**, Schulte, D., Sievers, P., Rinolfi, L., Variola, A., Zomer, F., Braun, H.H., Yakimenko, V., Bulyak, E.V., Klein, M., in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B66.** “Performance of the CERN Heavy Ion production complex”, Manglunki, D., *et al* in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B67.** “Intrabeam scattering studies at the Swiss Light Source”, Antoniou, F., **Papaphilippou, Y.**, Aiba, M., Böge, M., Milas, N., Streun, A., in the proceedings of the “*3rd International Particle Accelerator Conference 2012*”, New Orleans, LA, USA, May 2012.
- B68.** “Preparation of SLS for IBS measurements”, Milas, N., Aiba, M., Böge, M., Lüdeke, A., Saa Hernandez, A., Streun, A., Antoniou, F., **Papaphilippou, Y.**, in the proceedings of the

“3rd International Particle Accelerator Conference 2012”, New Orleans, LA, USA, May 2012.

- B69.** “Multi-Particle Simulation Codes Implementation to Include Models of a Novel Single-bunch Feedback System and Intra-beam Scattering”, Pivi, M., Chao, A., Rivetta, C.H., Demma, T., Boscolo, M., Antoniou, F., Li, K.S.B., **Papaphilippou, Y.**, Sonnad, K.G., in the proceedings of the “3rd International Particle Accelerator Conference 2012”, New Orleans, LA, USA, May 2012.
- B70.** “Frequency Map Analysis for SuperB”, Liuzzo, S.M., Biagini, M.E., P. Raimondi, P., **Papaphilippou, Y.**, Demma, T., in the proceedings of the “3rd International Particle Accelerator Conference 2012”, New Orleans, LA, USA, May 2012.
- B71.** “Intrabeam scattering studies at CESR-TA”, Ehrlichman, M., Hartung, W., Palmer, M.A., Peterson, D.P., Rider, N., Rubin, D., Shanks, J.P., Strohm, C.R., Wang, S., Campbell, R., Holtzapple, R., Antoniou, F., **Papaphilippou, Y.**, in the proceedings of the “3rd International Particle Accelerator Conference 2012”, New Orleans, LA, USA, May 2012, WEPPR015.
- B72.** “Necessary LIU studies in the injectors during 2012”, Rumolo, G., Bartosik, H., **Papaphilippou, Y.**, in the proceedings of the “Chamonix 2012 Workshop on LHC Performance”, Chamonix, France, February 2012, p.332-338.
- B73.** “Can the proton injectors meet the HL-LHC requirements after LS2?”, Goddard, B., Bartosik, H., Bracco, C., Brüning, O., Carli, C., Cornelis, K., Damerou, H., Garoby, R., Gilardoni, S., Hancock, S., Hanke, K., Kain, V., Meddahi, M., Mikulec, B., **Papaphilippou, Y.**, Rumolo, G., Shaposhnikova, E., Steerenberg, R., Vretenar, M., in the proceedings of the “Chamonix 2012 Workshop on LHC Performance”, Chamonix, France, February 2012, p.325-331.
- B74.** “Possible Cryogenic Configurations for the Superconducting Magnets of the Damping Rings of the Compact Linear Collider (CLIC)”, Perin, A., **Papaphilippou, Y.**, Russenschuck, S., Schoerling, D., “Cryogenic Engineering Conference & International Cryogenic Material Conference”, Spokane, Washington, USA, June 2011.
- B75.** “Probing intensity limits of LHC-Type bunches in CERN SPS with nominal optics”, Adrian, G. *et al*, in the proceedings of the “2nd International Particle Accelerator Conference 2011”, , San Sebastian, Spain, September 2011, pp.MOPS009.
- B76.** “Non-linear Dynamics Optimization of the CLIC Damping Rings”, Renier, Y., **Papaphilippou, Y.**, Antoniou, F., Wootton, K.P., in the proceedings of the “2nd International Particle Accelerator Conference 2011”, , San Sebastian, Spain, September 2011, pp.WEPC080.
- B77.** “Optics Design of the Delay Loop in the CLIC Damping Rings Complex”, Zisopoulos, P., Antoniou, F., Bartosik, H., **Papaphilippou, Y.**, in the proceedings of the “2nd International Particle Accelerator Conference 2011”, , San Sebastian, Spain, September 2011, pp.TUPC049.
- B78.** “Optics considerations for lowering transition energy in the SPS”, Bartosik, H., Arduini, G., **Papaphilippou, Y.**, in the proceedings of the “2nd International Particle Accelerator Conference 2011”, , San Sebastian, Spain, September 2011, pp.MOPS012.
- B79.** “Impact of low transition energy optics to the electron cloud instability of LHC beams in the SPS”, Bartosik, H., Benedetto, E., Li, K., **Papaphilippou, Y.**, Rumolo, G., in the pro-

ceedings of the “2nd International Particle Accelerator Conference 2011”, , San Sebastian, Spain, September 2011, pp.MOPS011.

- B80.** “Experimental studies with low transition energy optics in the SPS”, Bartosik, H., Argyropoulos, T., Bohl, T., Cettour Cave, S., Esteban Muller, J., Cornelis, K., **Papaphilippou, Y.**, Rumolo, G., Salvant, B., Shaposhnikova, E., Wenninger, J., in the proceedings of the “2nd International Particle Accelerator Conference 2011”, , San Sebastian, Spain, September 2011, pp.MOPS010.
- B81.** “Alignment Tolerances for Vertical Emittance”, Wootton, K.P., Boland, M. J., Rassool, **Papaphilippou, Y.**, R. P., Dowd, R., Tan, Y.-R. E., LeBlanc, G.S., Cowie, B.C.C., Taylor, G., in the proceedings of the “2nd International Particle Accelerator Conference 2011”, , San Sebastian, Spain, September 2011, TUPC046.
- B82.** “Linear and Non-Linear Optimization of the PS2 Negative Momentum Compaction Lattice”, Bartosik, H., **Papaphilippou, Y.**, in the proceedings of “Hadron Beam 2010”, Morschach, Switzerland, September 2010
- B83.** “Simulation of Space-charge Effects in the Proposed CERN PS2”, Qiang, J., Ryne, R.D., Bartosik, H., Carli, C., **Papaphilippou, Y.**, Wienands, U., in the proceedings of “Hadron Beam 2010”, Morschach, Switzerland, September 2010
- B84.** “Parametric Study of a Two-Stage Betatron Collimation System for the PS2”, Barranco, J., **Papaphilippou, Y.**, in the proceedings of “Hadron Beam 2010”, Morschach, Switzerland, September 2010
- B85.** “Parameter Scan for the CLIC Damping Rings under the Influence of Intrabeam Scattering”, Antoniou, F., Martini, M., **Papaphilippou, Y.**, Vivoli, A., in the proceedings of the “International Particle Accelerator Conference 2010”, Kyoto, Japan, May 2010
- B86.** “Recommendation for the Feasibility of More Compact LC Damping Rings”, Pivi, M.T.F., Wang, L., Demma, T., Guiducci, S., Suetsugu, Y., Shibata, K., Ohmi, K., Dugan, G., Palmer, M., Crittenden, J. A., Harkay, K., Boon, L., Furman, M.A., Venturini, M., Celata, C., LBNL, Malyshev, O., **Papaphilippou, Y.**, in the proceedings of the “International Particle Accelerator Conference 2010”, Kyoto, Japan, May 2010
- B87.** “Linear Optimization and Tunability of the PS2 Lattice”, Bartosik, H., Bartmann, W., Benedikt, M., Goddard, B., **Papaphilippou, Y.**, in the proceedings of the “International Particle Accelerator Conference 2010”, Kyoto, Japan, May 2010
- B88.** “Electron Cloud at Low Emittance in CEsrTA”, M. A. Palmer, *etal*, in the proceedings of the “International Particle Accelerator Conference 2010”, Kyoto, Japan, May 2010
- B89.** “Studies of Space Charge Effects in the Proposed CERN PS2”, Qiang, J., Ryne, R. D., Wienands, U., Macridin, A., Spentzouris, P., De Maria, R., **Papaphilippou, Y.**, in the proceedings of the “International Particle Accelerator Conference 2010”, Kyoto, Japan, May 2010
- B90.** “E-cloud Driven Single-bunch Instabilities in PS2”, Venturini, M., Furman, M.A., Penn, G., Secondo, R., Vay, J.-L., De Maria, R., **Papaphilippou, Y.**, Rumolo, G., in the proceedings of the “International Particle Accelerator Conference 2010”, Kyoto, Japan, May 2010
- B91.** “CLIC Energy Scans”, Schulte, D., Adli, E. Corsini, R., Dalena, B., Delahaye, J.-P., Doebert, S., Geschonke, G., Grudiev, A. Jeanneret, B., Jensen, E., Lebrun, Ph., **Papaphilippou, Y.**, Rinolfi, L., Rumolo, G., Schmickler, H., Stulle, F., Syratchev, I., Tomas, R., Wuensch,

- W., in the proceedings of the “*International Particle Accelerator Conference 2010*”, Kyoto, Japan, May 2010
- B92.** “Design Optimisation for the CLIC Damping Rings”, **Papaphilippou, Y.**, Antoniou, F., Barnes, M., Bettoni, S., Calatroni, S., Chiggiato, P., Corsini, R., Grudiev, A., Maccaferri, R., Modena, M., Rinolfi, L., Rumolo, G., Schoerling, D., Schulte, D., Taborelli, M., Vivoli, A., Levichev, E., Sinyatkin, S., Vobly, P., Zolotarev, K., in the proceedings of the “*International Particle Accelerator Conference 2010*”, Kyoto, Japan, May 2010
- B93.** “Comparison of PS2 Lattices with Different Geometries”, Bartosik, H., Lachaize, A., **Papaphilippou, Y.**, Bartmann, W., Goddard, B., Benedikt, M., Senichev, Y., in the proceedings of the “*International Particle Accelerator Conference 2010*”, Kyoto, Japan, May 2010
- B94.** “Non-Linear Analysis of the PS2 Negative Momentum Compaction Lattice”, Bartosik, H., Benedikt, M., **Papaphilippou, Y.**, in the proceedings of the “*International Particle Accelerator Conference 2010*”, Kyoto, Japan, May 2010
- B95.** “Electron-cloud Build-up Simulations in the Proposed PS2: Status Report”, Furman, M.A., De Maria, R., **Papaphilippou, Y.**, Rumolo, G., in the proceedings of the “*International Particle Accelerator Conference 2010*”, Kyoto, Japan, May 2010
- B96.** “Stacking Simulations for Compton Positron Sources of Future Linear Colliders”, Zimmermann, F., **Papaphilippou, Y.**, Rinolfi, L., Vivoli, A., Yakimenko, V., Kuriki, M., Chehab, R., Omori, T., Urakawa, J., Variola, A., Antoniou, F., in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B97.** “New Materials and Designs for Superconductive Insertion Devices”, Peiffer, P., Baumbach, T., Bernhard, A., Fuchert, G., Wollmann, D., Maccaferri, R., **Papaphilippou, Y.**, Rossmanith, R., in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B98.** “Lattice Options for the CLIC Damping Rings”, **Papaphilippou, Y.**, Antoniou, F., Levichev, E.B., Sinyatkin, S.V., Vobly, P., Zolotarev, K., Raimondi, P., in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B99.** “Design Considerations for the CLIC Pre-Damping Rings”, Antoniou, F., **Papaphilippou, Y.**, Zimmermann, F., in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B100.** “Collimation Considerations for PS2”, Barranco, J., Bartmann, W., Benedikt, M., **Papaphilippou, Y.**, in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B101.** “Beam Loss Control for the Unstripped Ions from the PS2 Charge Exchange Injection”, Bartmann, W., Barranco, J., Benedikt, M., Goddard, B., Kramer, T., **Papaphilippou, Y.**, Vincke, H., in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B102.** “Orbit, Optics and Chromaticity Correction for PS2 Negative Momentum Compaction Lattices”, **Papaphilippou, Y.**, Barranco, J., Bartmann, W., Benedikt, M., Carli, C., Peggs, S., Trbojevic, D., de Maria, R., in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B103.** “Linear Optics Design of Negative Momentum Compaction Lattices for PS2”, **Papaphilippou, Y.**, Barranco, J., Bartmann, W., Benedikt, M., Carli, C., Goddard, B., Peggs, S., Trbo-

- jevic, D., de Maria, R., in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B104.** “Generation of Short Proton Bunches in the CERN Accelerator Complex”, Zimmermann, F., Assmann, R.W., Giovannozzi, M., **Papaphilippou, Y.**, Caldwell, A., Xia, G.X., in the proceedings of the “*Particle Accelerator Conference 2009*”, Vancouver, British Columbia, Canada, May 2009
- B105.** “Efficiency and Robustness of the PS2 Collimation System”, Barranco, J., **Papaphilippou, Y.**, in the proceedings of “*Hadron Beam 2008*”, Nashville, Tennessee, USA, August 2008
- B106.** “Lattice without Transition Energy for the Future PS2”, Trbojevic, D., Peggs, S., de Maria, R., **Papaphilippou, Y.**, in the proceedings of the “*European Particle Accelerator Conference 2008*”, Genova, Italy, June 2008
- B107.** “Non Linear Dynamics Study of the CLIC Damping Rings Using Symplectic Integrators”, Skokos, Ch., **Papaphilippou, Y.**, in the proceedings of the “*European Particle Accelerator Conference 2008*”, Genova, Italy, June 2008
- B108.** “Beam Losses and Collimation Considerations for PS2”, Barranco, J., Bartmann, W., Benedikt, M., **Papaphilippou, Y.**, in the proceedings of the “*European Particle Accelerator Conference 2008*”, Genova, Italy, June 2008
- B109.** “Optics Design Considerations for the CLIC Pre-damping Rings”, Antoniou, F., **Papaphilippou, Y.**, in the proceedings of the “*European Particle Accelerator Conference 2008*”, Genova, Italy, June 2008
- B110.** “Parameter Scan for the CLIC Damping Rings”, **Papaphilippou, Y.**, Braun, H.H., Korostelev, M., in the proceedings of the “*European Particle Accelerator Conference 2008*”, Genova, Italy, June 2008
- B111.** “Electron Cloud Build Up and Instability in the CLIC Damping Rings”, Rumolo, G., Bruns, W., **Papaphilippou, Y.**, in the proceedings of the “*European Particle Accelerator Conference 2008*”, Genova, Italy, June 2008
- B112.** “Collective Effects in the CLIC Damping Rings”, Rumolo, G., Jeanneret, J.B., **Papaphilippou, Y.**, Quattraro, D., in the proceedings of the “*European Particle Accelerator Conference 2008*”, Genova, Italy, June 2008
- B113.** “Linear Optics Design for PS2”, **Papaphilippou, Y.**, Bartmann, W., Benedikt, M., Carli, C., Goddard, B., Hancock, S., Jowett, J.M., Koschik, A., in the proceedings of the *CARE-HHH-APD Workshop on Finalizing the Roadmap for the Upgrade of the CERN & GSI Accelerator Complex*, CERN, Geneva, Switzerland, 1 - 5 October 2007, CERN-2008-005
- B114.** “Precise Tune Measurements from Multiple Beam Position Monitors”, Skokos, Ch, Laskar, J., **Papaphilippou, Y.**, in the proceedings of the “*Particle Accelerator Conference 2007*”, Albuquerque, New Mexico, USA, June 2007, IEEE, 2007.
- B115.** “Space-Charge Compensation Options for the LHC Injector Complex”, Aiba, M., Chanel, M., Dorda, U., Garoby, R., Koutchouk, J.-P., Martini, M., Metral, E., **Papaphilippou, Y.**, Scandale, W., Zimmermann, F., Shiltsev, V., Franchetti, G., in the proceedings of the “*Particle Accelerator Conference 2007*”, Albuquerque, New Mexico, USA, June 2007, IEEE, 2007.
- B116.** “Completion of the Series Fabrication of the Main Superconducting Quadrupole Magnets of LHC”, Tortschanoff, T., Modena, M., **Papaphilippou, Y.**, Rossi, L., Schirm, K. M.,

- Burgmer, R., Klein, H.-U., D. Krischel, Schellong, B., Schmidt, P., Durante, M., Payn, A., Rifflet, J.-M., Simon F., in the proceedings of the “*Particle Accelerator Conference 2007*”, Albuquerque, New Mexico, USA, June 2007, IEEE, 2007.
- B117.** “Geometry of the LHC Short Straight Sections Before Installation in the Tunnel: Resulting Aperture”, Missiaen, D., Bestmann, P., Buzio, M., Fartoukh, S., Giovannozzi, G., Jeanneret, B., Lombardi, A., **Papaphilippou, Y.**, Perez, J. C., Pauletta, S., Prin, H., Wildner, E., in the proceedings of the “*Particle Accelerator Conference 2007*”, Albuquerque, New Mexico, USA, June 2007, IEEE, 2007.
- B118.** “Superconductive Damping Wigglers for the CLIC Project”, Rossmann, R., Casalbuoni, S., Grau, A., Hagelstein, M., Kostka, B. K., Baumbach, T., Bernhard, A., Muller, A.-S., Wollmann, D., Braun, H.-H., Korostelev, M., **Papaphilippou, Y.**, Zimmermann, F., in the proceedings of the “*Particle Accelerator Conference 2007*”, Albuquerque, New Mexico, USA, June 2007, IEEE, 2007.
- B119.** “Magnet Acceptance and Allocation at the LHC Magnet Evaluation Board Bottura, L., Catalan-Lasheras, N., Fartoukh, S., Gilardoni, S., Giovannozzi, M., Jeanneret, J.-B., Karpinen, M., Lombardi, A., Mess, K.-H., Missiaen, D., Modena, M., Ostojic, R., **Papaphilippou, Y.**, Pognat, P., Ramberger, S., Sanfilippo, S., Scandale, W., Schmidt, F., Siegel, N., Siemko, A., in the proceedings of the “*Particle Accelerator Conference 2007*”, Albuquerque, New Mexico, USA, June 2007, IEEE, 2007
- B120.** “Beam Loss Map Simulations and Measurements in the CERN PS”, Barranco, J., Berrig, O., Gilardoni, S., Jeanneret, J.-B., **Papaphilippou, Y.**, Robert-Demolaize, G., in the proceedings of the “*Particle Accelerator Conference 2007*”, in the proceedings of the “*Particle Accelerator Conference 2007*”, Albuquerque, New Mexico, USA, June 2007, IEEE, 2007
- B121.** “Optics Considerations for the PS2”, Benedikt, M., Bartmann, Carli, C., Goddard, B., Hancock, S., Jowett, J., **Papaphilippou, Y.**, in “*Particle Accelerator Conference 2007*”, in the proceedings of the “*Particle Accelerator Conference 2007*”, Albuquerque, New Mexico, USA, June 2007, IEEE, 2007
- B122.** “Sorting Strategies for the Arc Quadrupoles of the LHC”, **Papaphilippou, Y.**, Lombardi, A., in the proceedings of the “*European Particle Accelerator Conference 2006*”, Edinburgh, Scotland, June 2006
- B123.** “Dynamical Aperture Studies for the CERN LHC: Comparison between Statistical Assignment of Magnetic Field Errors and Actual Measured Field Errors”, Giovannozzi, de Maria, M. R., Fartoukh, S., Gilardoni, S., Jeanneret, J.-B., Lombardi, A., **Papaphilippou, Y.**, Riselada, T., in the proceedings of the “*European Particle Accelerator Conference 2006*”, Edinburgh, Scotland, June 2006
- B124.** “Accelerator Physics Code Web Repository”, Zimmermann, F., Basset, R., Bellodi, G., Benedetto, E., Dorda, U., Giovannozzi, M., **Papaphilippou, Y.**, *etal*, in the proceedings of the “*European Particle Accelerator Conference 2006*”, Edinburgh, Scotland, June 2006.
- B125.** “Procedures and Accuracy Estimates for Beta-beat Correction in the LHC”, Tomas, R., Bruning, O., Fartoukh, S., Giovannozzi, M., **Papaphilippou, Y.**, Zimmermann, F., Calaga R., Peggs, S., Franchi, A., in the proceedings of the “*European Particle Accelerator Conference 2006*”, Edinburgh, Scotland, June 2006.
- B126.** “Lattice upgrade options for the ESRF storage ring”, **Papaphilippou, Y.**, Elleaume, P.,

- Farvacque, L. and Ropert, A., in the proceedings of the “*Particle Accelerator Conference 2005*”, Knoxville, USA, May 2005, ed. C.Horak, IEEE, 2005.
- B127.** “Linear optics measurements in the ESRF Booster”, **Papaphilippou, Y.**, Farvacque, L., Patriarca, A. and Plouviez, E., in the proceedings of the “*Particle Accelerator Conference 2005*”, Knoxville, USA, May 2005, ed. C.Horak, IEEE, 2005.
- B128.** “Analytical considerations for the reduction of the effective emittance with variable dipole field strengths”, **Papaphilippou, Y.**, and Elleaume, P., in the proceedings of the “*Particle Accelerator Conference 2005*”, Knoxville, USA, May 2005, ed. C.Horak, IEEE, 2005.
- B129.** “Measurement of linear lattice functions in the ESRF storage ring using turn-by-turn data”, **Papaphilippou, Y.**, Bailey, S.-L., and Farvacque L., in the proceedings of the “*Particle Accelerator Conference 2005*”, Knoxville, USA, May 2005, ed. C.Horak, IEEE, 2005.
- B130.** “SPS Beam Beam Long Range experiments in 2004”, Zimmermann, F., Koutchouk, J.-P., Roncarolo, F., Wenninger, J., **Papaphilippou, Y.**, Sen, T., Shiltsev, V., in the proceedings of the “*Particle Accelerator Conference 2005*”, Knoxville, USA, May 2005, ed. C.Horak, IEEE, 2005.
- B131.** “Experimental frequency maps for the ESRF storage ring”, **Papaphilippou, Y.**, Farvacque, L., Laskar, J. Ropert, A., Plouviez, E. and Skokos, Ch., “*European Particle Accelerator Conference 2004*”, Luzern, Switzerland, July 2004.
- B132.** “Operational improvements in the ESRF injection complex”, **Papaphilippou, Y.**, Elleaume, P., Farvacque, L., Hardy, L., Naylor, G., Plouviez, E., Revol, J.-L. Scheidt, K. and Serrière, V., “*European Particle Accelerator Conference 2004*”, Luzern, Switzerland, July 2004.
- B133.** “Prospects for long-term lattice upgrade at the ESRF”, Ropert, A. Elleaume, P., Farvacque, L., **Papaphilippou, Y.** and Perron, T. “*European Particle Accelerator Conference 2004*”, Luzern, Switzerland, July 2004.
- B134.** “Probing the non-linear dynamics of the ESRF storage ring with experimental frequency maps”, **Papaphilippou, Y.**, Farvacque, L., Ropert, A. and Laskar, J., in the Proceedings of the “*Particle Accelerator Conference 2003*”, Portland, USA, May 2003.
- B135.** “Chromaticity measurements in the ESRF booster”, **Papaphilippou, Y.**, *et al.* in the Proceedings of the “*Particle Accelerator Conference 2003*”, Portland, USA, May 2003.
- B136.** “Recent developments at the ESRF”, Revol, J. .L., *et al.* in the Proceedings of the “*Particle Accelerator Conference 2003*”, Portland, USA, May 2003.
- B137.** “Beam-Beam interaction, electron cloud and intrabeam scattering for proton superbunches”, Ruggiero, F., Zimmermann, F., Rumolo, G. and **Papaphilippou, Y.**, in the Proceedings of the “*Particle Accelerator Conference 2003*”, Portland, USA, May 2003; also published as *CERN-AB Note*, **036** (2003).
- B138.** “The commissioning plan for the Spallation Neutron Source ring and transport lines”, Henderson, S., Assadi, S., Cousineau, S., Dodson, G., Danilov, V., Galambos, J., Holmes, J., Reece, K., Shea, T., Raparia, D., Blaskiewicz, M., Lee, Y. Y., **Papaphilippou, Y.**, Wei, J. in the Proceedings of the “*Particle Accelerator Conference 2003*”, Portland, USA, May 2003.
- B139.** “Transverse “monopole” instability driven by an electron cloud?”, Benedetto, E., Schulte, D., Zimmermann, F., Ohmi, K., **Papaphilippou, Y.**, Rumolo, G. in the Proceedings of the “*Particle Accelerator Conference 2003*”, Portland, USA, May 2003. also published as *CERN-AB Note*, **037** (2003).

- B140.** “Final test results for the SNS ring dipoles”, Wanderer, P., Jackson, J., Jain, A., Lee, Y.-Y., W. Meng, **Y. Papaphilippou**, C. Spataro, S. Tepikian, N. Tsoupas, in the Proceedings of the “*Particle Accelerator Conference 2003*”, Portland, USA, May 2003.
- B141.** “Beam dynamics studies for uniform (hollow) bunches or superbunches in the LHC: beam-beam effects, electron cloud, longitudinal dynamics, and intrabeam scattering” Ruggiero, F., Rumolo, G., Zimmermann, F. and **Papaphilippou, Y.**, in the Proceedings of the “*International Workshop on Recent Progress in Induction Accelerators (RPIA2002)*”, KEK, Tsukuba, Japan, October 29-31,2002; also published as *LHC project report*, **627** (2003).
- B142.** “The SNS ring dipole magnetic field quality”, P. Wanderer, J. Jackson, A. Jain, Y.-Y. Lee, W. Meng, **Y. Papaphilippou**, C. Spataro, S. Tepikian, N. Tsoupas, in the Proceedings of the “*8th European Particle Accelerator Conference*”, EPAC2002, Paris, France, June 2002.
- B143.** “SNS ring optics tuning”, Holmes, J.A., Wan, W., Catalan-Lasheras, N., Fedotov, A. V., **Papaphilippou, Y.**, and Wei, J. in the Proceedings of the “*Particle Accelerator Conference 2001*”, Chicago, USA, June 2001.
- B144.** “Excitation of resonances due to space charge and magnet errors in the SNS ring”, Fedotov, A. V., Malitsky, N., **Papaphilippou, Y.** Wei, J. and Holmes, J.A., in the Proceedings of the “*Particle Accelerator Conference 2001*”, Chicago, USA, June 2001.
- B145.** “Frequency and diffusion maps for the SNS ring”, **Papaphilippou, Y.**, in the Proceedings of the “*Particle Accelerator Conference 2001*”, Chicago, USA, June 2001.
- B146.** “Correction systems upgrade for the SNS ring”, **Papaphilippou, Y.**, Gardner, C. J., Lee, Y. Y. and Wei, J., in the Proceedings of the “*Particle Accelerator Conference 2001*”, Chicago, USA, June 2001.
- B147.** “Impact of magnetic field interference in the SNS ring”, **Papaphilippou, Y.**, Lee, Y. Y. and Meng, W., in the Proceedings of the “*Particle Accelerator Conference 2001*”, Chicago, USA, June 2001.
- B148.** “Performance optimization and the path to a 2MW Spallation Neutron Source”, Wei, J., *et al.*, in the Proceedings of the “*Particle Accelerator Conference 2001*”, Chicago, USA, June 2001.
- B149.** “Beam loss mechanism and limitations of the SNS Ring”, Weng, W.T., *et al.*, in the Proceedings of the “*Asian Particle Accelerator Conference 2001*”, Beijing, China, September 2001.
- B150.** “Correction schemes for the normal octupole and decapole errors in the LHC dipoles”, **Papaphilippou, Y.**, in the Proceedings of the “*7th European Particle Accelerator Conference*”, EPAC2000, Vienna, Austria, June 2000, eds. J.L. Laclare, W. Mitaroff, Ch. Petit-Genaz, J. Poole, and M. Regler, Austrian Academy of Sciences Press, Vienna (2000).
- B151.** “Diffusive aperture due to long-range beam-beam interaction”, **Papaphilippou, Y.** and Zimmermann, F., in the Proceedings of the “*7th European Particle Accelerator Conference*”, EPAC2000, Vienna, Austria, June 2000, eds. J.L. Laclare, W. Mitaroff, Ch. Petit-Genaz, J. Poole, and M. Regler, Austrian Academy of Sciences Press, Vienna (2000); also published as *LHC project report*, **402** (2000).
- B152.** “Measurements of coherent tune shifts and head-tail growth rates at the CERN SPS”, Zorzano, M.P., Arduini, G., Burkhardt, H., Cornelis, K., **Papaphilippou, Y.** and Zimmermann, F., in the Proceedings of the “*7th European Particle Accelerator Conference*”, EPAC2000,

- Vienna, Austria, June 2000, eds. J.L. Laclare, W. Mitaroff, Ch. Petit-Genaz, J. Poole, and M. Regler, Austrian Academy of Sciences Press, Vienna (2000); also published as *SL report*, **27** (2000).
- B153.** “Beam dynamics analysis and correction of magnet field imperfections in the SNS accumulator ring”, **Papaphilippou, Y.** and Abell, D.T., in the Proceedings of the “*7th European Particle Accelerator Conference*”, EPAC2000, Vienna, Austria, June 2000, eds. J.L. Laclare, W. Mitaroff, Ch. Petit-Genaz, J. Poole, and M. Regler, Austrian Academy of Sciences Press, Vienna (2000).
- B154.** “Chromatic correction and optical compensation in the SNS accumulator ring using sextupoles” Tsoupas, N., Gardner, C.J., Lee, Y.Y., **Papaphilippou, Y.** and Wei, J., in the Proceedings of the “*7th European Particle Accelerator Conference*”, EPAC2000, Vienna, Austria, June 2000, eds. J.L. Laclare, W. Mitaroff, Ch. Petit-Genaz, J. Poole, and M. Regler, Austrian Academy of Sciences Press, Vienna (2000).
- B155.** “Effect of non-linearities on beam dynamics in the SNS accumulator ring” Fedotov, A., Abell, D.T., Lee, Y.Y., Malitsky, N., **Papaphilippou, Y.** and Wei, J., in the Proceedings of the “*7th European Particle Accelerator Conference*”, EPAC2000, Vienna, Austria, June 2000, eds. J.L. Laclare, W. Mitaroff, Ch. Petit-Genaz, J. Poole, and M. Regler, Austrian Academy of Sciences Press, Vienna (2000).
- B156.** “Scaling law for the impact of magnet fringe fields”, Wei, J., **Papaphilippou, Y.** and Talman, R. in the Proceedings of the “*7th European Particle Accelerator Conference*”, EPAC2000, Vienna, Austria, June 2000, eds. J.L. Laclare, W. Mitaroff, Ch. Petit-Genaz, J. Poole, and M. Regler, Austrian Academy of Sciences Press, Vienna (2000).
- B157.** “Measurements of coherent tune shift and head-tail growth rates at the SPS”, Arduini, G., Burkhardt, H., Cornelis, K., **Papaphilippou, Y.**, Zimmermann, F. and Zorzano, M.P., in the Proceedings of the workshop on “*Accelerator Physics Experiments for Future Hadron Colliders*”, BNL, UPTON NY, USA, eds. W. Fischer and F. Pilat, BNL-52601 Formal Report (2000); also published as *SL Note-99-059 MD*, (1999).
- B158.** “Weak-strong beam-beam simulations for the LHC”, **Papaphilippou, Y.** and Zimmermann, F., in the Proceedings of the workshop on “*Beam-Beam Effects in Large Hadron Colliders*”, CERN, Geneva, Switzerland, April 1999, eds. F. Zimmermann and J. Poole, CERN SL/99-039 AP (1999).
- B159.** “Effects of sextupole time dependence on the LHC dynamic aperture”, **Papaphilippou, Y.**, Schmidt, F. and Zimmermann, F., in the Proceedings of the “*1999 Particle Accelerator Conference*”, New York, USA, April 1999, eds. A. Luccio and W. MacKay, BNL, Upton NY and IEEE, Piscataway NJ (1999); also published as *LHC project report*, **294** (1999).
- B160.** “Frequency Maps of LHC models”, **Papaphilippou, Y.**, in the Proceedings of the “*1999 Particle Accelerator Conference*”, New York, USA, April 1999, eds. A. Luccio and W. MacKay, BNL, Upton NY and IEEE, Piscataway NJ (1999); also published as *LHC project report*, **299** (1999); part of this work was **reprinted** by “CERN courier” (**41**, 1, 2001)
- B161.** “Measurement of resonance driving terms from turn-by-turn data”, Bartolini, R., Leunissen, L., **Papaphilippou, Y.**, Schmidt, F. and Verdier, A., in the Proceedings of the “*1999 Particle Accelerator Conference*”, New York, USA, April 1999, eds. A. Luccio and W. MacKay, BNL, Upton NY and IEEE, Piscataway NJ (1999); also published as *SL report*, **32** (1999).

- B162.** “Study of the non-linear behavior of the LHC using normal forms”, **Papaphilippou, Y.** and Schmidt, F., in the Proceedings of the *HEAAC '98 XVII International Conference on High Energy Accelerators*, Dubna, Russia, September 1998; also published as *LHC project report*, **235** (1998).
- B163.** “Report of the working group on single-particle nonlinear dynamics”, Bazzani, A., Bongini, L., Corbett, J., Dome, G., Fedorova, A., Freguglia, P., Ng, K., Ohmi, K., Owen, H., **Papaphilippou, Y.**, Robin, D., Safranek, J., Scandale, W., Terebilo, A., Turchetti, G., Todesco, E., Warnock, R. and Zeitlin, M., in the Proceedings of the workshop on “*Non-linear and Collective Phenomena in Beam Physics*”, Arcidosso, Italy, September 1998, eds. S. Chattopadhyay, M. Cornacchia and C. Pellegrini, AIP Conference Proceedings **468**, 3-10 (1999).
- B164.** “Frequency map analysis of the chaotic motion of an intense mismatched beam in a FODO channel”, Pisent, A., Bazzani, A., **Papaphilippou, Y.**, Comunian, M., Miano, G., Vaccaro, V.G., Verolino, L. and Turchetti, G., in the Proceedings of the workshop on “*Nonlinear and Stochastic Beam Dynamics in Accelerators - A Challenge to Theoretical and Computational Physics*”, Lüneburg, Germany, October 1997, eds. A. Bazzani, J. Ellison, H. Mais and G. Turchetti., DESY-97-161 (1998).
- B165.** “Global dynamics of a galactic potential via frequency map analysis”, **Papaphilippou, Y.**, Proceedings of the NATO-ASI on “*Hamiltonian Systems with 3 or more degrees of freedom*”, S’Agaro, Spain, June 1995, ed. C. Simó, Kluwer : Dordrecht (1999).
- B166.** “Application de la méthode d’analyse en fréquence en dynamique galactique”, **Papaphilippou, Y.**, in the Proceedings of the Educational Winter School of Astronomy and Astrophysics on “Dynamics of gravitational systems”, Arc 2000, France, 1997, eds. D. Bennest and C. Fröesle, Editions de l’Observatoire de Nice (1997).
- B167.** “Global dynamics of the logarithmic galactic potential by means of frequency map analysis”, **Papaphilippou, Y.** and Laskar, J., in the Proceedings of the workshop on “*Chaos in Gravitational N-Body Systems*”, La Plata, Argentina, July 1995, eds. J. C. Muzzio, S. Ferraz-Mello, and J. Henrard, Kluwer : Dordrecht (1996).
- B168.** “Application de la méthode d’analyse en fréquence dans un potentiel galactique à 2 degrés de liberté”, **Papaphilippou, Y.**, in the Proceedings of the Conference “Evolution of Gravitational Systems - Models and Methods”, Aussois, France 1994, eds. J. Laskar and Y. Papaphilippou, Editions du Bureau des longitudes (1995).

C. Internal Laboratory Reports - Technical Notes

- C1.** “Collation of Data for Parameter Optimization”, Arduini, G., Pieloni, T., **Papaphilippou, Y.**, Giovannozzi, M., Brüning, O., Wolski, A., Valishev, A., Métral, E., *CERN-ACC-2015-0033*, (2015).
- C2.** “HL-LHC Operational Scenarios”, Metral, E., Arduini, G., Banfi, D., Barranco Garcia, J., Biancacci, N., Brüning, O., De Maria, R., Giovannozzi, M., Höfle, W., Li, K., Esteban Muller, J., **Papaphilippou, Y.**, Pieloni, T., Salvant, B., Shaposhnikova, E., Tambasco, C., Valishev, A., Valuch, D., Wolski, A., *CERN-ACC-NOTE-2015-0009*, (2015).
- C3.** “Investigation of Coupling during the Non-Local Fast Extraction in the SPS”, Alekou, A., Bartosik, H., **Papaphilippou, Y.**, *CERN-ACC-NOTE-2014-0060*, (2014).

- C4.** “Design of the Injection and extraction system and related machine protection for the CLIC Damping Rings”, Apsimon, R., Balhan, B., Barnes, M., Borburgh, J., Goddard, B., **Papaphilippou, Y.**, Uythoven, J., *CERN-OPEN-2014-044 ; CLIC-Note-1034*, (2014).
- C5.** “Final report on second period : Deliverable 1.7”, Aleksan, R., *et al*, *TIARA-REP-WP1-2014-011* (2014).
- C6.** “Final Report on TIARA work package 6”, Aiba, M. *et al*, *TIARA-REP-WP6-2014-001*, (2014).
- C7.** “TIARA biannual report # 5”, Aleksan, R., Unnervik, A., Biagini, M., Bousson, S., and Tanguy, C., Burrows, P., **Papaphilippou, Y.**, Pierini, P., Kircher, F., Long, K., *TIARA-REP-WP1-2013-014* (2013). TIARA mid-term report
- C8.** “Annual LOW-e-RING workshop, first year”, **Papaphilippou, Y.**, *CERN-ACC-2013-0264* (2013).
- C9.** “Feasibility studies in view of a new LIU-SPS scraping system”, Mete, O. *et al*, *CERN-ACC-NOTE-2013-0016* (2013).
- C10.** “Performance analysis and physics potential of upgrades of existing neutrino facilities”, Cornelis, K., *et al*, *EuCARD-REP-2013-007* (2013).
- C11.** “On the Relation of the LHeC and the LHC”, Abelleira Fernandez, J. L., *et al*, *CERN-LHeC-Note-2012-005-GEN* (2012).
- C12.** “A Large Hadron Electron Collider at CERN”, Abelleira Fernandez, J. L., *et al*, *CERN-LHeC-Note-2012-004-GEN* (2012).
- C13.** “TIARA mid-term report : Project activity report for the first period: 01/01/2011-30/06/2012”, Aleksan, R., Biagini, M., Bousson, S., Burrows, P., Kircher, F., Long, K., **Papaphilippou, Y.**, Pierini, P., Tanguy, C., Unnervik, A., *TIARA-REP-WP1-2012-014* (2012).
- C14.** “Injection MD”, Bartmann, W., Bartosik, H., Bracco, C., Drosdal, L., Gianfelice, E., Goddard, B., Kain, V., **Papaphilippou, Y.**, Vanbavinckhove, G., *CERN-ATS-Note-2012-090 MD* (2012).
- C15.** “CERN Accelerator Infrastructure for Neutrino Physics”, Cornelis, K., *et al*, *CERN-ATS-Note-2012* (2012).
- C16.** “TIARA biannual report # 4”, Aleksan, R., Biagini, M., Bousson, S., Burrows, P., Kircher, F., Long, K., **Papaphilippou, Y.**, Pierini, P., Tanguy, C., Unnervik, A., *TIARA-REP-WP1-2012-003* (2012).
- C17.** “TIARA biannual report (July 2011)”, Aleksan, R., Biagini, M., Bousson, S., Burrows, P., Kircher, F., Long, K., **Papaphilippou, Y.**, Pierini, P., Tanguy, C., Unnervik, A., *TIARA-REP-WP1-2011-003* (2011).
- C18.** “Report on existing hardware limitations and needed upgrades of the storage ring of the Swiss Light Source”, Milas, N., Streun, A., Andersson, A., **Papaphilippou, Y.**, Antoniou, F., *TIARA-REP-WP6-2011-004*, (2011).
- C19.** “Alternative design of the CLIC Damping Ring Lattice”, Author(s) Braun, H.H., Levichev, E., **Papaphilippou, Y.**, Siniatkin, S., Zolotarev, K., *CLIC-Note-849*, (2010).
- C20.** “Parameter Specification, Kickers for the CLIC Damping and Predamping Rings” **Papaphilippou, Y.**, *EDMS #989080*, (2010).

- C21.** “How do we have to operate the LHCb spectrometer magnet?” Herr, W., Meddahi, M., **Papaphilippou, Y.**, *CERN-LHC-Project-Note-419* (2008)
- C22.** “CLIC 2008 Parameters”, Braun, H., Corsini, R. Delahaye, J. P., de Roeck, A., Döbert, S., Ferrari, A., Geschonke, G., Grudiev, A (CERN) ; Hauviller, C., Jeanneret, B., Jensen, E., Lefèvre, T., **Papaphilippou, Y.**, Riddone, G., Rinolfi, L., Schlatter, W.D., Schmickler, H., Schulte, D., Syratchev, I., Taborelli, M., Tecker, F. (ed.), Tomas, R., Weisz, S., Wuensch, W.,*CERN-CLIC-Note-764* (2008)
- C23.** “Alternative running scenarios for the LHCb experiment” Herr, W., **Papaphilippou, Y.**, *CERN-LHC-PROJECT-Report-1009* (2007)
- C24.** “Image processing algorithms for beam size measurements”, Calzetta, A., **Papaphilippou, Y.** and Scheidt, K. *ESRF Technical Note 2-05/THEORY* (2005).
- C25.** “Beam-based callibration of the Booster chromaticity sextupoles”, Patriarca, A., and **Papaphilippou, Y.** *ESRF Technical Note 3-05/MDT* (2005).
- C26.** “Parameter list of the ESRF accelerator complex”, Jacob, J., **Papaphilippou, Y.** and Ropert, A., *ESRF Technical Note MACH 04/60* (2004).
- C27.** “Dispersion measurements in the ESRF booster”, Patriarca, A. and **Papaphilippou, Y.** *ESRF Technical Note 11-04/MDT* (2004).
- C28.** “Motorisation of a booster quadrupole for coupling control”, **Papaphilippou, Y.** and Elleaume, P., *ESRF Technical Note 01-04/INJ* (2004).
- C29.** “Injecting 100MeV electrons into the ESRF Booster”, **Papaphilippou, Y.**, Elleaume, P., Henrissat, P. and Serrière, V. *ESRF-Machine development 26-03* (2003).
- C30.** “Emittance measurements in the ESRF Booster”, **Papaphilippou, Y.** Elleaume, P. and Scheidt, K. *ESRF-Machine development 20-03* (2003).
- C31.** “Tuning the TL2 optics for maximum injection efficiency”, Elleaume, P., Farvacque, L., Hardy, L. and **Papaphilippou, Y.**, *ESRF-Machine development 17-03* (2003).
- C32.** “Beam dynamics studies (ESRF-Soleil collaboration)”, **Papaphilippou, Y.**, and Ropert, A., *ESRF-Machine development 02-03* (2003).
- C33.** “Preliminary Change Request for the chromatic sextupoles of the SNS accumulator ring” **Papaphilippou, Y.**, Tsoupas, N., Gardner, C.J., Lee, Y.Y. and Wei, J. *BNL/SNS Technical Note 93* (2001).
- C34.** “Preliminary Change Request for the powering of the 21Q40 and 26Q40 focusing arc quadrupoles”, **Papaphilippou, Y.**, Lambiase, R., Lee, Y.Y., Meng, W., Tuozzolo, J., Wei, J. and Holmes, J.A., *BNL/SNS Technical Note 92* (2001).
- C35.** “Space-charge and resonance considerations for choosing the SNS ring working points”, Fedotov, A., **Papaphilippou, Y.**, Wei, J. and Holmes, J.A., *BNL/SNS Technical Note 91* (2001).
- C36.** “Preliminary Change Request for the low-field corrector power supplies of the SNS ring”, **Papaphilippou, Y.**, Gardner, C., Lambiase, R., Lee, Y.Y., Marneris, I. and Wei, J., *BNL/SNS Technical Note 89* (2001).
- C37.** “Preliminary Change Request for the chromatic sextupoles and trim quadrupole elements of the SNS accumulator ring” edited by **Papaphilippou, Y.** and Tsoupas, N., *BNL/SNS Technical Note 75* (2000).

- C38.** “Octupole correction scheme for the SNS accumulator ring”, **Papaphilippou, Y.**, Abell, D.T and Gardner, C.J., *BNL/SNS Technical Note 72* (2000).
- C39.** “Correction schemes for the normal octupole and decapole errors in the LHC dipoles”, **Papaphilippou, Y.**, *LHC project report*, **411** (2000).
- C40.** “Second experiment to measure resonance driving terms in the SPS”, Altuna, X. *et al.*, *CERN SL Note 99-017 MD* (1999).
- C41.** “Improvement of LHC dynamic aperture via octupole spool pieces for the Nominal Tunes”, **Papaphilippou, Y.**, Schmidt, F. and Jin, L., *LHC project report*, **253** (1998).
- C42.** “First measurements of resonance driving terms in the SPS”, Altuna, X. *et al.*, *CERN SL Note 98-045 MD* (1998).
- C43.** “Application of the frequency analysis method in a 2 degrees of freedom galactic potential” (in French) *Journées Scientifiques du Bureau des longitudes*, Notes Scientifiques et Techniques du BDL, Paris (1994).

D. Lecture Notes

- D1.** “Accelerator fundamentals”, Weng, W.T. and **Papaphilippou, Y.**, United States Particle Accelerator School 2002, University of California, Los Angeles, January 2002.
- D2.** “Physics and design of high-intensity circular accelerators”, Wei, J., Fedotov, A.V. and **Papaphilippou, Y.**, United States Particle Accelerator School 2001, University of Colorado, Boulder, June 2001.

E. Theses

- E1.** PhD Thesis with subject: “Application de l’analyse en fréquence en dynamique galactique”, Université de Paris VII (1997).
- E2.** “Application de l’analyse en fréquence en dynamique galactique dans un potentiel galactique a deux degrés de liberté”, Master’s degree Thesis Dissertation, Bureau des longitudes (1993).
- E3.** “Dynamical analysis of non-linear wave equations which have soliton solution” (in Greek), Diploma Thesis Dissertation, National and Kapodistrian University of Athens (1992).

F. Other Publications

- F1.** “Status of the CLIC Damping Rings Design”, in ICFA Beam Dynamics Newsletter No. 62, edited by M. Biagini and Y. Papaphilippou, December 2013.
- F2.** “The CLIC Programme: Towards a Staged e+ e-Linear Collider Exploring the Terascale: CLIC Conceptual Design Report”, The CLIC collaboration, arXiv preprint arXiv:1209.2543, 2012.
- F3.** “Conceptual design of the CLIC Damping Rings”, (Section 3.5), in ICFA Beam Dynamics Newsletter No. 57, edited by Y. Cai, April 2012.

- F4.** “Creation of ultra-low emittance beams” (Chapter 2.6) and “Damping rings” (Chapter 3.3) in “A Multi-Tev Linear Collider Based on CLIC Technology - CLIC Conceptual Design Report”, CERN-2012-007 (2012).
- F5.** “Single-Particle Effects” (Chapter 2.4) and “Correction Systems” (Chapter 3.2) in “Spallation Neutron Source Accumulator Ring and Transport Design Manual”, edited by J. Wei, BNL, (2003).
- F6.** Edition of the conference proceedings for the reunion of the GDR Dynamique des Systèmes Gravitationnelles (Centre National de la Recherche Scientifique) on “Evolution of Gravitational Systems - Models and Methods”, Aussois, France (1994).
- F7.** Dissertation during the participation in EU’s educational program “Erasmus - Free Movers” with subject : “Deviation of a LASER beam with acoustical methods” (in French), Ecole Centrale de Paris (1991).