

Proposed chronological appearance of IMCC-tagged documents on CDS

- 1) J.P. Delahaye et al., Muon Colliders (Input to the European Particle Physics Strategy Update by the Muon Collider Working Group), <https://arxiv.org/abs/1901.06150>, 18/01/2019.
- 2) M. Boscolo et al., The future prospects of muon colliders and neutrino factories, <https://arxiv.org/abs/1808.01858>, 28/03/2019 (v2).
- 3) D. Schulte et al., Muon Collider. A Path to the Future?, European Physical Society Conference on High Energy Physics - EPS-HEP2019, Ghent, Belgium, https://indico.cern.ch/event/867138/attachments/1954116/3245304/Muon_Collider_EPS_2019.pdf, 10-17/07/2019.
- 4) M. Ruhdorfer, E. Salvioni, and A. Weiler, A Global View of the Off-Shell Higgs Portal, *SciPost Phys.* 8 (2020) 027, arXiv:1910.04170 [hep-ph]. Published: 12/02/2020.
- 5) A. Costantini, F. De Lillo, F. Maltoni, L. Mantani, O. Mattelaer, R. Ruiz, and X. Zhao, Vector boson fusion at multi-TeV muon colliders, *JHEP* 09 (2020) 080, arXiv:2005.10289 [hep-ph]. Published: 10/09/2020.
- 6) M. Chiesa, F. Maltoni, L. Mantani, B. Mele, F. Piccinini, and X. Zhao, Measuring the quartic Higgs self-coupling at a multi-TeV muon collider, *JHEP* 09 (2020) 098, arXiv:2003.13628 [hep-ph]. Published: 15/09/2020.
- 7) Laura Buonincontri, Master's Degree Thesis, "Study of mitigation strategies of beam induced background and Higgs boson couplings measurements at a muon collider", University of Padova, 2020. <https://thesis.unipd.it/handle/20.500.12608/22861>.
- 8) T. Han, D. Liu, I. Low, and X. Wang, Electroweak couplings of the Higgs boson at a multi-TeV muon collider, *Phys. Rev. D* 103 (2021) no. 1, 013002, arXiv:2008.12204 [hep-ph]. Published: 06/01/2021.
- 9) L. Buonincontri, "Study of Higgs couplings measurements at muon collider", *IL NUOVO CIMENTO* 44 C (2021) 31, DOI 10.1393/ncc/i2021-21031-8. Submitted: 13/01/2021.
- 10) Long, K.R., Lucchesi, D., Palmer, M.A. et al. Muon colliders to expand frontiers of particle physics. *Nat. Phys.* 17, 289–292 (2021). <https://doi.org/10.1038/s41567-020-01130-x>. Published 28 January 2021.
- 11) T. Han, Y. Ma, and K. Xie, High energy leptonic collisions and electroweak parton distribution functions, *Phys. Rev. D* 103 (2021) no. 3, L031301, arXiv:2007.14300 [hep-ph]. Published: 18/02/2021.
- 12) W. Liu and K.-P. Xie, Probing electroweak phase transition with multi-TeV muon colliders and gravitational waves, *JHEP* 04 (2021) 015, arXiv:2101.10469 [hep-ph]. Published: 01/04/2021.
- 13) T. Han, Z. Liu, L.-T. Wang, and X. Wang, WIMPs at High Energy Muon Colliders, *Phys. Rev. D* 103 (2021) no. 7, 075004, arXiv:2009.11287 [hep-ph]. Published: 06/04/2021.
- 14) R. Capdevilla, D. Curtin, Y. Kahn, and G. Krnjaic, Discovering the physics of $(g - 2) \mu$ at future muon colliders, *Phys. Rev. D* 103 (2021) no. 7, 075028, arXiv:2006.16277 [hep-ph]. Published: 27/04/2021.
- 15) G.-y. Huang, F. S. Queiroz, and W. Rodejohann, Gauged $L \mu - L \tau$ at a muon collider, *Phys. Rev. D* 103 (2021) no. 9, 095005, arXiv:2101.04956 [hep-ph]. Published: 07/05/2021.
- 16) R. Franceschini and M. Greco, Higgs and BSM Physics at the Future Muon Collider, *Symmetry* 13 (2021) no. 5, 851, arXiv:2104.05770 [hep-ph]. Published: 11/05/2021.
- 17) D. Buttazzo, R. Franceschini, and A. Wulzer, Two Paths Towards Precision at a Very High Energy Lepton Collider, *JHEP* 05 (2021) 219, arXiv:2012.11555 [hep-ph]. Published: 24/05/2021.
- 18) D. Schulte, The International Muon Collider Collaboration / Schulte (<https://cds.cern.ch/record/2809175/files/document.pdf>), IPAC'21, 24-28/05/2021.
- 19) C. Giraldin, L. Buonincontri et al. "Luminosity measurement at muon collider", PoS(LHCP2021)341, 7-12 June 2021.
- 20) R. Capdevilla, F. Meloni, R. Simoniello, and J. Zurita, Hunting wino and higgsino dark matter at the muon collider with disappearing tracks, *JHEP* 06 (2021) 133, arXiv:2102.11292 [hep-ph]. Published: 22/06/2021.
- 21) M. Chiesa, B. Mele, F. Piccinini "Multi Higgs production via photon fusion at future multi-TeV muon colliders", arXiv:2109.10109 [hep-ph]. Submitted: 21/09/2021.
- 22) T. Han, S. Li, S. Su, W. Su, and Y. Wu, Heavy Higgs bosons in 2HDM at a muon collider, *Phys. Rev. D* 104 (2021) no. 5, 055029, arXiv:2102.08386 [hep-ph]. Published: 23/09/2021.
- 23) Bartosik N., Andreetto P., Buonincontri L. et al., "Full Detector Simulation with Unprecedented Background Occupancy at a Muon Collider", *Comput Softw Big Sci* 5, 21 (2021). <https://doi.org/10.1007/s41781-021-00067-x>. Published: 05/10/2021.

- 24) D. Buttazzo and P. Paradisi, Probing the muon $g - 2$ anomaly with the Higgs boson at a muon collider, Phys. Rev. D 104 (2021) no. 7, 075021, arXiv:2012.02769 [hep-ph]. Published: 14/10/2021.
- 25) C. Aimè, N. Bartosik, M. Casarsa, C. Riccardi, P. Salvini, and I. Vai, “Designing the Muon System of a Muon Collider Experiment: Requirements from Muon Reconstruction and Technological Solutions,” in 2021 IEEE Nuclear Science Symposium (NSS) and Medical Imaging Conference (MIC), 2021. DOI: 10.1109/NSS/MIC44867.2021.9875437. 16-23 October 2021.
- 26) P. Asadi, R. Capdevilla, C. Cesarotti, and S. Homiller, Searching for leptoquarks at future muon colliders, JHEP 10 (2021) 182, arXiv:2104.05720 [hep-ph]. Published: 22/10/2021.
- 27) T. Han, W. Kilian, N. Kreher, Y. Ma, J. Reuter, T. Striegl, and K. Xie, Precision test of the muon-Higgs coupling at a high-energy muon collider, JHEP 12 (2021) 162, arXiv:2108.05362 [hep-ph]. Published: 22/10/2021.
- 28) R. Dermisek, K. Hermanek, and N. McGinnis, Di-Higgs and tri-Higgs boson signals of muon $g-2$ at a muon collider, Phys. Rev. D 104 (2021) no. 9, L091301, arXiv:2108.10950 [hep-ph]. Published: 12/11/2021.
- 29) Bernd Stechauner, Final cooling scheme for muon colliders: a door opener for future discovery machines (<https://cds.cern.ch/record/2804902/files/CERN-THESIS-2021-304.pdf>), 01/12/2021.
- 30) S. Qian, C. Li, Q. Li, F. Meng, J. Xiao, T. Yang, M. Lu, and Z. You, Searching for heavy leptoquarks at a muon collider, JHEP 12 (2021) 047, arXiv:2109.01265 [hep-ph]. Published: 09/12/2021.
- 31) Alessandro Montella, Master’s Degree Thesis, "Study of the physics potential of the $H \rightarrow \mu\mu$ direct decay channel at a 3 TeV muon collider", University of Trieste, 2021. <https://pubblicazioni.dsi.infn.it/tesi/gettesi.php?filename=531188-Montella%20-magistrale.pdf>.
- 32) C. Giraldin, Bachelor’s Degree Thesis, “Study of methods for luminosity measurement at muon collider”, University of Padova, 2021.
- 33) Giacomo Da Molin, Master’s Degree Thesis, “Study of b- and c- jets identification for Higgs coupling measurement at muon collider”, University of Padova, 2021. <https://thesis.unipd.it/handle/20.500.12608/3238>.
- 34) G.-y. Huang, S. Jana, F. S. Queiroz, and W. Rodejohann, Probing the RK^* anomaly at a muon collider, Phys. Rev. D 105 (2022) no. 1, 015013, arXiv:2103.01617 [hep-ph]. Published: 11/01/2022.
- 35) S. Bottaro, D. Buttazzo, M. Costa, R. Franceschini, P. Panci, D. Redigolo, and L. Vittorio, Closing the window on WIMP Dark Matter, Eur. Phys. J. C 82 (2022) no. 1, 31, arXiv:2107.09688 [hep-ph]. Published: 12/01/2022.
- 36) R. Capdevilla, D. Curtin, Y. Kahn, and G. Krnjaic, No-lose theorem for discovering the new physics of $(g-2)\mu$ at muon colliders, Phys. Rev. D 105 (2022) no. 1, 015028, arXiv:2101.10334 [hep-ph]. Published: 25/01/2022.
- 37) I. Vai, C. Aimè, N. Bartosik, M. Casarsa, C. Riccardi, P. Salvini on behalf of the Muon Collider Physics and Detector Working Group “Muon reconstruction performance and detector-design considerations for a Muon Collider”, PoS EPS-HEP2021 (2022) 833, DOI: 10.22323/1.398.0833. Published: 10/02/2022.
- 38) T. Han, Y. Ma, and K. Xie, Quark and gluon contents of a lepton at high energies, JHEP 02 (2022) 154, arXiv:2103.09844 [hep-ph]. Published: 18/02/2022.
- 39) D. Ally, L. Carpenter, T. Holmes, L. Lee, P. Wagenknecht. “Strategies for Beam-Induced Background Reduction at Muon Colliders”, Snowmass Proceedings, DOI: <https://doi.org/10.48550/arXiv.2203.06773>. Submitted: 13/03/2022.
- 40) W. Altmannshofer, S. A. Gadom, and S. Profumo, Snowmass White Paper: Probing New Physics with $\mu + \mu^- \rightarrow bs$ at a Muon Collider, in Snowmass 2021. 3, 2022. arXiv:2203.07495 [hep-ph]. Submitted: 14/03/2022.
- 41) C. Aimè et al., Promising Technologies and R&D Directions for the Future Muon Collider Detectors (<https://cds.cern.ch/record/2847513/files/2203.07224.pdf>), 15/03/2022. <https://arxiv.org/abs/2203.07224>
- 42) C. Aimè et al., Muon Collider Physics Summary (<https://cds.cern.ch/record/2811638/files/jt.pdf>), 15/03/2022. arXiv:2203.07256 [hep-ph].
- 43) C. Aimè et al., The physics case of a 3 TeV muon collider stage (<https://cds.cern.ch/record/2811640/files/jt.pdf>), 15/03/2022. arXiv:2203.07261 [hep-ph].

- 44) C. Aimè et al., Simulated Detector Performance at the Muon Collider (<https://cds.cern.ch/record/2824768/files/e5c967a3a3736521213de69827fd0b8c.pdf>), 16/03/2022. <https://arxiv.org/abs/2203.07964>.
- 45) L. Bottura et al., A Work Proposal for a Collaborative Study of Magnet Technology for a Future Muon Collider (<https://cds.cern.ch/record/2806670/files/2203.13998.pdf>), 29/03/2022.
- 46) D. Schulte et al., Chapter 5 (in ESPP - Accel. R&D Roadmap, pp.145-183): Bright muon beams and muon colliders (<https://cds.cern.ch/record/2806289/files/document.pdf>), <https://arxiv.org/abs/2201.07895>, 30/03/2022 (v3).
- 47) C. Aimè et al., A Muon Collider Facility for Physics Discovery (<https://cds.cern.ch/record/2827205/files/1d831c5ff49dc5c77ab54a52485f652b.pdf>), 01/04/2022. <https://arxiv.org/abs/2203.08033>
- 48) M. Casarsa, M. Fabbrichesi, and E. Gabrielli, Monochromatic single photon events at the muon collider, Phys. Rev. D 105 (2022) no. 7, 075008, arXiv:2111.13220 [hep-ph]. Published: 11/04/2022.
- 49) R. Capdevilla, D. Curtin, Y. Kahn, and G. Krnjaic, Systematically testing singlet models for $(g - 2) \mu$, JHEP 04 (2022) 129, arXiv:2112.08377 [hep-ph]. Published: 22/04/2022.
- 50) L. Buonincontri et al., "Higgs boson couplings at muon collider", PoS(EPS-HEP2021)619. Published: 12/05/2022.
- 51) C. Aimè, C. Riccardi, P. Salvini, I. Vai on behalf of the Muon Collider Physics and Detector Working Group "Dark-SUSY channels to study muon reconstruction performance at the Muon Collider", PoS EPS-HEP2021 (2022) 644, DOI: 10.22323/1.398.0644. Published: 12/05/2022.
- 52) W. Liu, K.-P. Xie, and Z. Yi, Testing leptogenesis at the LHC and future muon colliders: A Z' scenario, Phys. Rev. D 105 (2022) no. 9, 095034, arXiv:2109.15087 [hep-ph]. Published: 24/05/2022.
- 53) S. Chen, A. Glioti, R. Rattazzi, L. Ricci, and A. Wulzer, Learning from radiation at a very high energy lepton collider, JHEP 05 (2022) 180, arXiv:2202.10509 [hep-ph]. Published: 27/05/2022.
- 54) E. Fol et al., Automated Design and Optimization of the Final Cooling for a Muon Collider (<https://cds.cern.ch/record/2845865/files/document.pdf>), IPAC'22, 12-17/06/2022.
- 55) E. Fol et al., MACHINE LEARNING-BASED MODELING OF MUON BEAM IONIZATION COOLING (<https://accelconf.web.cern.ch/ipac2022/papers/wepoms046.pdf>), IPAC'22, 12-17/06/2022.
- 56) D. Calzolari et al., Radiation Load Studies for Superconducting Dipole Magnets in a 10 TeV Muon Collider (<https://cds.cern.ch/record/2845834/files/document.pdf>), IPAC'22, 12-17/06/2022.
- 57) D. Schulte, The Muon Collider / Schulte (<https://cds.cern.ch/record/2845832/files/document.pdf>), IPAC'22, 12-17/06/2022.
- 58) F. Saura et al., Muon Collider Graphite Target Studies and Demonstrator Layout Possibilities at CERN (<https://cds.cern.ch/record/2845829/files/document.pdf>), IPAC'22, 12-17/06/2022.
- 59) K. Skoufaris et al., 10 TeV Center of Mass Energy Muon Collider (<https://cds.cern.ch/record/2845810/files/document.pdf>), IPAC'22, 12-17/06/2022.
- 60) R. Ruiz, A. Costantini, F. Maltoni, and O. Mattelaer, The Effective Vector Boson Approximation in high-energy muon collisions, JHEP 06 (2022) 114, arXiv:2111.02442 [hep-ph]. Published: 20/06/2022.
- 61) H. Al Ali et al., The muon Smasher's guide, Rept. Prog. Phys. 85 (2022) no. 8, 084201, arXiv:2103.14043 [hep-ph]. Published: 05/07/2022.
- 62) S. Homiller, Q. Lu, and M. Reece, Complementary signals of lepton flavor violation at a high-energy muon collider, JHEP 07 (2022) 036, arXiv:2203.08825 [hep-ph]. Published: 06/07/2022.
- 63) M. Forslund and P. Meade, High precision higgs from high energy muon colliders, JHEP 08 (2022) 185, arXiv:2203.09425 [hep-ph]. Published: 19/08/2022.
- 64) R. Franceschini, A. Strumia, and A. Wulzer, The collider landscape: which collider for establishing the SM instability?, JHEP 08 (2022) 229, arXiv:2203.17197 [hep-ph]. [Erratum: JHEP 03, 167 (2023)]. Published: 23/08/2022.
- 65) W. Yin and M. Yamaguchi, Muon g-2 at a multi-TeV muon collider, Phys. Rev. D 106 (2022) no. 3, 033007, arXiv:2012.03928 [hep-ph]. Published: 30/08/2022.
- 66) K.M. Black et al., "Muon Collider Forum Report", <https://arxiv.org/abs/2209.01318>. Submitted: 03/09/2022.
- 67) P. Bandyopadhyay, A. Karan, R. Mandal, and S. Parashar, Distinguishing signatures of scalar leptoquarks at hadron and muon colliders, Eur. Phys. J. C 82 (2022) no. 10, 916, arXiv:2108.06506 [hep-ph]. Published: 15/10/2022.

- 68) A. Azatov, F. Garosi, A. Greljo, D. Marzocca, J. Salko, and S. Trifinopoulos, New physics in $b \rightarrow s\mu\mu$: FCC-hh or a muon collider? , JHEP 10 (2022) 149, arXiv:2205.13552 [hep-ph]. Published: 21/10/2022.
- 69) J. de Blas, J. Gu, and Z. Liu, Higgs boson precision measurements at a 125 GeV muon collider, Phys. Rev. D 106 (2022) no. 7, 073007, arXiv:2203.04324 [hep-ph]. Published: 26/10/2022.
- 70) S. Bottaro, D. Buttazzo, M. Costa, R. Franceschini, P. Panci, D. Redigolo, and L. Vittorio, The last complex WIMPs standing, Eur. Phys. J. C 82 (2022) no. 11, 992, arXiv:2205.04486 [hep-ph]. Published: 05/11/2022.
- 71) P. Salvini, "Simulated performance of a multi-purpose experiment at a Muon Collider" PoS ICHEP2022 (2022), 1109, DOI: 10.22323/1.414.1109. Published: 02/12/2022.
- 72) P. M. Bredt, W. Kilian, J. Reuter, and P. Stienemeier, NLO electroweak corrections to multi-boson processes at a muon collider, JHEP 12 (2022) 138, arXiv:2208.09438 [hep-ph]. Published: 27/12/2022.
- 73) P. Paradisi, O. Sumensari, and A. Valenti, High-energy frontier of the muon g-2 at a muon collider, Phys. Rev. D 106 (2022) no. 11, 115038, arXiv:2203.06103 [hep-ph]. Published: 30/12/2022.
- 74) M. Casarsa, "Detector design for a multi-TeV muon collider", Nucl. Instrum. Methods A 1046, 167680 (2023), <https://doi.org/10.1016/j.nima.2022.167680>. Published: 11/01/2023.
- 75) C. Aimè, S. Calzaferri, M. Casarsa, D. Fiorina, C. Riccardi, P. Salvini, N. Valle, I. Vai, P. Vitulo,
- 76) "Muon detector for a Muon Collider", Nucl.Instrum.Meth.A, vol 1046, 2023, <https://doi.org/10.1016/j.nima.2022.167800>. Published: 11/01/2023.
- 77) T. H. Kwok, L. Li, T. Liu, and A. Rock, Searching for Heavy Neutral Leptons at A Future Muon Collider, arXiv:2301.05177 [hep-ph]. Submitted: 12/01/2023.
- 78) C. Cesarotti, S. Horniller, R. K. Mishra, and M. Reece, Probing New Gauge Forces with a High-Energy Muon Beam Dump, Phys. Rev. Lett. 130 (2023) no. 7, 071803, arXiv:2202.12302 [hep-ph]. Published: 15/02/2023.
- 79) Stamerra A. : "Design and simulation of a MPGD-based hadronic calorimeter for Muon Collider", doi: <https://doi.org/10.1016/j.nima.2022.167731>. February 2023.
- 80) C. Accettura et al., Towards a Muon Collider (<https://cds.cern.ch/record/2852695/files/2303.08533.pdf>), <https://arxiv.org/abs/2201.07895>, 15/03/2023.
- 81) T. Li, C.-Y. Yao, and M. Yuan, Revealing the origin of neutrino masses through the Type II Seesaw mechanism at high-energy muon colliders, JHEP 03 (2023) 137, arXiv:2301.07274 [hep-ph]. Published: 20/03/2023.
- 82) P. Li, Z. Liu, and K.-F. Lyu, Heavy neutral leptons at muon colliders, JHEP 03 (2023) 231, arXiv:2301.07117 [hep-ph]. Published: 29/03/2023.
- 83) D. Calzolari et al., LATTICE AND DETECTOR STUDIES FOR THE MDI OF A 10 TEV MUON COLLIDER (<https://www.ipac23.org/preproc/pdf/MOPA090.pdf>), IPAC'23, 07-12/05/2023.
- 84) K. Skoufaris et al., FIRST DESIGN OF A 10 TeV CENTRE OF MASS ENERGY MUON COLLIDER (<https://www.ipac23.org/preproc/pdf/MOPL064.pdf>), IPAC'23, 07-12/05/2023.
- 85) A. Chancé et al., PARAMETER RANGES FOR A CHAIN OF RAPID CYCLING SYNCHROTRONS FOR A MUON COLLIDER COMPLEX (<https://www.ipac23.org/preproc/pdf/MOPL162.pdf>), IPAC'23, 07-12/05/2023.
- 86) B. Stechauner et al., THERMODYNAMIC CHARACTERISTICS OF HYDROGEN IN AN IONIZATION COOLING CHANNEL FOR MUON COLLIDERS (<https://www.ipac23.org/preproc/pdf/MOPL163.pdf>), IPAC'23, 07-12/05/2023.
- 87) B. Stechauner et al., COMPARISON OF TRACKING CODES FOR BEAM-MATTER INTERACTION (<https://www.ipac23.org/preproc/pdf/MOPL165.pdf>), IPAC'23, 07-12/05/2023.
- 88) C. Carli et al., NEUTRINO GENERATED RADIATION FROM A HIGH ENERGY MUON COLLIDER (<https://www.ipac23.org/preproc/pdf/MOPL166.pdf>), IPAC'23, 07-12/05/2023.
- 89) F. Batsch et al., LONGITUDINAL BEAM DYNAMICS AND RF REQUIREMENTS FOR A CHAIN OF MUON RCSs (<https://www.ipac23.org/preproc/pdf/TUPA040.pdf>), IPAC'23, 07-12/05/2023.
- 90) D. Amorim et al., TRANSVERSE IMPEDANCE AND BEAM STABILITY STUDIES FOR THE MUON COLLIDER RING (<https://www.ipac23.org/preproc/pdf/WEPL185.pdf>), IPAC'23, 07-12/05/2023.
- 91) D. Amorim et al., TRANSVERSE IMPEDANCE AND BEAM STABILITY STUDIES FOR THE MUON COLLIDER RAPID CYCLING SYNCHROTRONS (<https://www.ipac23.org/preproc/pdf/WEPL186.pdf>), IPAC'23, 07-12/05/2023.

- 92) S. Fabbri et al., MAGNETS FOR A MUON COLLIDER (<https://www.ipac23.org/preproc/pdf/WEPM062.pdf>), IPAC'23, 07-12/05/2023.
- 93) F. Boattini et al., A TWO HARMONICS CIRCUIT FOR THE POWERING OF THE VERY FAST RCS (RAPID CYCLING SYNCHROTRON) OF THE MUON COLLIDER ACCELERATOR (<https://www.ipac23.org/preproc/pdf/WEPM078.pdf>), IPAC'23, 07-12/05/2023.
- 94) A. Latina et al., UPDATE OF THE RF-TRACK PARTICLE TRACKING CODE (<https://www.ipac23.org/preproc/pdf/WEPL151.pdf>), IPAC'23, 07-12/05/2023.
- 95) K. Mękała, J. Reuter, and A. F. Żarnecki, Optimal search reach for heavy neutral leptons at a muon collider, Phys. Lett. B 841 (2023) 137945, arXiv:2301.02602 [hep-ph]. Published: 10/06/2023.
- 96) P. Andreetto, N. Bartosik, M. Casarsa, A. Ganelle, K. Krizka, D. Lucchesi, S. Pagan Griso and L. Sestini, "Software and computing challenges for a Muon Collider Detector", PoS ICHEP2022 (2022), 226, DOI: 10.22323/1.414.0226. Published: 15/06/2023.
- 97) A. Jueid and S. Nasri, Lepton portal dark matter at muon colliders: Total rates and generic features for phenomenologically viable scenarios, Phys. Rev. D 107 (2023) no. 11, 115027, arXiv:2301.12524 [hep-ph]. Published: 21/06/2023.
- 98) R. Franceschini and X. Zhao, Going all the way in the search for WIMP dark matter at the muon collider through precision measurements, Eur. Phys. J. C 83 (2023) no. 6, 552, arXiv:2212.11900 [hep-ph]. Published: 30/06/2023.
- 99) M. Casarsa, "Prospects of a future multi-TeV muon collider", SciPost Phys. Proc. 8, 061 (2022), <https://scipost.org/SciPostPhysProc.8.061>. Published: 12/07/2022.
- 100) G. Da Molin, "Study of b- and c-jets identification for Higgs coupling measurements at the Muon Collider", IL NUOVO CIMENTO 46 Issue 4 (2023) 92, DOI: <https://doi.org/10.1393/ncc/i2023-23092-y>. Published: 27/07/2023.
- 101) J. Pavan, Study of optimized HTS solenoid configurations for the beam cooling of a Muon Collider, Master Thesis, July 2023.
- 102) C. Rogers, A Demonstrator for Muon Ionisation Cooling, Phys. Sci. Forum 2023, 8(1), 37 (<https://doi.org/10.3390/psf2023008037>), published on 11/08/2023.
- 103) L. Bottura et al., Design and analysis of a HTS internally cooled cable for the Muon Collider target magnet, submitted to CHATS special issue (still in review as of 06/08/23).
- 104) A. Dasgupta, P. S. B. Dev, T. Han, R. Padhan, S. Wang and K. Xie, [arXiv:2308.12804 [hep-ph]]. Submitted: 24/08/2023.
- 105) P. S. B. Dev, J. Heeck and A. Thapa, [arXiv:2309.06463 [hep-ph]]. Submitted: 12/09/2023.
- 106) F. Garosi, D. Marzocca and S. Trifinopoulos, JHEP 09 (2023), 107 doi:10.1007/JHEP09(2023)107 [arXiv:2303.16964 [hep-ph]]. Published: 18/09/2023.
- 107) Chiara Aimè, PhD Thesis, "Hidden sectors search at the CMS experiment and predictions for future colliders", University of Pavia, 2023. <https://pubblicazioni.dsi.infn.it/tesi/dettaglioTesi.php?tid=533425>.

Other papers sent to me by Andrea Wulzer (10/10/23) which are good references but older than the paper 1) and therefore will not be tagged IMCC

- 1) V. D. Barger, M. S. Berger, J. F. Gunion, and T. Han, Precision W boson and top quark mass determinations at a muon collider, Phys. Rev. D 56 (1997) 1714–1722, arXiv:hep-ph/9702334.
- 2) M. S. Berger, The Top - anti-top threshold at muon colliders, AIP Conf. Proc. 435 (1998) no. 1, 797–802, arXiv:hep-ph/9712486.
- 3) A. Freitas, [arXiv:1107.3853 [hep-ph]]. Submitted: 19/07/2011.
- 4) P. Borel, R. Franceschini, R. Rattazzi, and A. Wulzer, Probing the Scattering of Equivalent Electroweak Bosons, JHEP 06 (2012) 122, arXiv:1202.1904 [hep-ph].
- 5) T. Han and Z. Liu, Potential precision of a direct measurement of the Higgs boson total width at a muon collider, Phys. Rev. D 87 (2013) no. 3, 033007, arXiv:1210.7803 [hep-ph]. Published: 20/02/2013.
- 6) A. Conway and H. Wenzel, Higgs Measurements at a Muon Collider, arXiv:1304.5270 [hep-ex]. Submitted: 18/04/2013.

- 7) N. Chakrabarty, T. Han, Z. Liu, and B. Mukhopadhyaya, Radiative Return for Heavy Higgs Boson at a Muon Collider, Phys. Rev. D 91 (2015) no. 1, 015008, arXiv:1408.5912 [hep-ph].
- 8) M. Greco, T. Han, and Z. Liu, ISR effects for resonant Higgs production at future lepton colliders, Phys. Lett. B 763 (2016) 409–415, arXiv:1607.03210 [hep-ph].
- 9) D. Buttazzo, D. Redigolo, F. Sala, and A. Tesi, Fusing Vectors into Scalars at High Energy Lepton Colliders, JHEP 11 (2018) 144, arXiv:1807.04743 [hep-ph].
- 10) L. Di Luzio, R. Gröber, and G. Panico, Probing new electroweak states via precision measurements at the LHC and future colliders, JHEP 01 (2019) 011, arXiv:1810.10993 [hep-ph].