|  |  |
| --- | --- |
|  | **蒋洪平** |
|  | |
| C:\Users\zhang\AppData\Local\Temp\WeChat Files\288e1b947d9e165e77c2cb1063bd871.jpg | IJCLab Laboratoire de Physique des 2 Infinis Irene Joliot-Curie UMR 9012 CNRS/In2p3  Université Paris-Saclay, Site Orsay Bâtiment 100 et 201 91898 Orsay Cedex |
| +33765261986  +8615210982898 |
| Jiang.hongping@cern.ch |
| https://www.jianghp.org |
|  |
| 性别 男 | 出生年月 10/1986 | 国籍 中国 |

|  |  |
| --- | --- |
| 工作经历 |  |

|  |  |
| --- | --- |
| 2021年9月-至今 | **访问学者**  **伊伦-约里奥-居里实验室（IJCLAB）**  **核物理及粒子物理研究院（IN2P3）**  **法国国家科研中心（CNRS）**  **奥赛，法国** |
| **负责FCCee Higgs工厂环对撞区束流动力学设计** |
| 2017年12月- 至今 | **助理研究员**  空间环境与物质科学研究院  **哈尔滨工业大学**  黑龙江，中国 |
| * **参加项目：空间环境地面模拟装置（SESRI）** * 负责300MeV质子重离子直线加速器 * 10kW 10MeV电子加速器的设计调试运行 |

|  |  |
| --- | --- |
| 2014年9月- 2017年9月 | **博士后**  工程物理系  **清华大学**  北京, 中国 |
| * **参加项目：CPHS升级由3MeV到13MeV** * **西安质子应用装置（西核所XiPAF）** * 西安质子应用装置直线（XiPAF）加速器RFQ和DTL耦合器设计 * 直线束线束流动力学分析，散束器设计调试运行 * 同步环阻抗计算及研究 * 清华大学微型脉冲强子源DTL误差分析，RFQ耦合器设计及调试运行 |

|  |  |
| --- | --- |
| 学习及培训经历 |  |

|  |  |
| --- | --- |
| 2009年9月 – 2014年7月 | 工学博士，核技术及应用（硕博连读）  中国科学院大学  **高能物理研究所加速器中心**  研究课题：强流质子加速器束晕形成机制的研究 |
| 2013年10月 –2013年11月 | 欧洲核子中心-美国-日本-俄罗斯联合国际加速器学校  富士, 静冈, 日本 |
| 2005年9月 – 2009年7月 | 理学学士，应用物理学  物理学院  **吉林大学**  **长春，吉林** |

|  |  |
| --- | --- |
| 个人技能 |  |

|  |  |
| --- | --- |
| 科学工具 | * 熟练掌握电子质子重离子加速器设计以及束流动力学分析软件如下： * **TraceWin, IMPaCT, RFQGen, PARMILA, LORASR, MADX** * **高频仿真软件：Superfish, CST, HFSS** * 计算机语言及工具：Matlab, Python, R, C++, Java |

|  |  |
| --- | --- |
| 其他技能 | * **直线加速器的调试运行维护以及设计** * 直线RFQ、DTL的束流动力学设计，束线设计，束斑均匀化传输线设计 * 高频腔体的设计老练维护运行 * **高等学校教师资格证 核技术及应用** |

|  |  |
| --- | --- |
| ADDITIONAL INFORMATION |  |

|  |  |
| --- | --- |
| 发表文章  专利  国际会议口头报告 | [1] Hong-Ping J, Shi-Nian F, Jun P, et al. Characterizing a proton beam with two different methods in beam halo experiments[J]. Chinese Physics C, 2014, 38(8): 087002. [2] Jun P, Tao H, Hua-Chang L, Hong-Ping J et al. Beam halo experiment at IHEP[J]. Chinese Physics C, 2013, 37(3): 037002. [3] Hongping Jiang, Shinian Fu, et al., Macroparticle simulation studies of a beam- core matching experiment, Proceedings of IPAC13, Shanghai, China May, 2013. [4] Hongping Jiang, Shinian Fu, et al., Studies of the low energy proton beam halo experiment, Proceedings of NA-PAC2013, Pasadena, 2013,October, CA USA [5] Hongping Jiang, Shinian Fu, et al., Beam Dynamics Analysis in the Beam Halo Experiments at IHEP, Proceedings of IPAC14, Dresden, Germany, June, 2014 [6]Hongping Jiang, et al., Measurements of Beam Halo by Wire Scanner Monitor, Proceedings of IBIC15, Melbourne, Australia, September, 2015 [7]Shuxin Zheng, Hongping Jiang et al., Design of the 230MeV proton accelerator for Xi’an Proton Application Facility, Proceedings of HB2016, Sweden, July, 2016 [8]Qingzi Xing, Hongping Jiang et al., Design of the 7MeV Linac Injector for the 200MeV Synchrotron of the Xi'an Proton Application Facility, Proceedings of HB2016, Sweden, July, 2016 [9]Qingzi Xing, Hongping Jiang et al., Present status of the high current linac at Tsinghua University and its application, Proceedings of HB2016, Sweden, July, 2016 [10]Wolong Liu, Hongping Jiang, et al., an Optimization Method of the Nose-Cone Buncher Cavity, Proceedings of IPAC18, Beijing, China, September, 2018 [11]Jiang, H., Chen, W., Zhang, T., Liu, J., Hao, H., Han, Z., ... & Zhang, J. (2019). SESRI 300 MeV Proton and Heavy Ion Accelerator. Journal of Physics: Conference Series, 2019  **[1]张健；蒋洪平；郝文旭；刘剑利；张韬；陈晚；郝焕锋；陈启明；韩正男；一种四杆型RFQ液压调谐系统级调谐杆锁死机构，2020-7-7，中国，ZL 2019 1 0599837.5.**  **[2]陈晚；郝焕锋；蒋洪平；刘剑利；张健；张韬；陈启明；韩正男；姚庆欢；李忠宇；李振宇；窦彦昕； 一种新型弧形斜边静电偏转板及粒子加速器斩波器，2020中国CN202010264501.6**  **[3]陈晚；郝焕锋；蒋洪平；刘剑利；张健；张韬；陈启明；韩正男；姚庆欢；李忠宇；李振宇；窦彦昕；一种高温超导无磁扼多离子变能量回旋加速器高频腔体，2020 中国CN202010264982.0**  **[4]陈晚；郝焕锋；蒋洪平；刘剑利；张健；张韬；陈启明；韩正男；姚庆欢；李忠宇；李振宇；窦彦昕；一种电流控制超宽带回旋加速器高频腔体,2020 中国 CN202010264504.X**  **NA-PAC13, Contributed oral presentation: Studies of the low energy proton beam halo experiment，Pasadena California USA** |

|  |  |
| --- | --- |
|  | **Hongping Jiang** |
|  | |
| C:\Users\zhang\AppData\Local\Temp\WeChat Files\288e1b947d9e165e77c2cb1063bd871.jpg | IJCLab Laboratoire de Physique des 2 Infinis Irene Joliot-Curie UMR 9012 CNRS/In2p3 Université Paris-Saclay,  Site Orsay Bâtiment 100 et 201 91898 Orsay Cedex |
| +33765261986  +8615210982898 |
| Jiang@ijclab.in2p3.fr |
| https://www.jianghp.com.cn |
|  |
| Sex: Male | Date of birth 10/1986 | Nationality P. R. China |

|  |  |
| --- | --- |
| Work Experience |  |

|  |  |
| --- | --- |
| September/2021 - now | **Visiting Scholar**  **IJCLAB, IN2P3, CNRS**  **ORSAY，FRANCE** |
| **The implementation of mono-schemes to FCC-ee** |
| December/2017-now | **Research Assistant**  Space Environment Simulation and Research  Infrastructure,  Harbin Institute of Technology, Heilongjiang, China |
| * **Mainly work:** * **▪ In charge of HIT-SESRI 300MeV proton and heavy ion accelerator** * **▪ In charge of 10kW 10MeV electron accelerator** |

|  |  |
| --- | --- |
| September/2014-  /December/2017 | **Post-doctoral scientist in Accelerator lab., Dep. Engineering Physics,**  **Tsinghua University, Beijing, China** |
| * **Mainly work:** * **▪ Design of couplers for RFQ and DTL in Xi’an Proton Facility** * **▪ Design of Debuncher Cavity in Xi’an Proton Facility** * **▪ Study of the CPHS DTL error analysis, Design of beamline** |

|  |  |
| --- | --- |
| Education and Training |  |

|  |  |
| --- | --- |
| September/2009 –July/2014 | Doctor of Engineering, Nuclear Technology and Applications  **University of Chinese Academy of Sciences**  Study in Accelerator Centre, **Institute of High Energy Physics(IHEP)**, CAS |
| October/2013 –November/2013 | Joint CERN-US-Japan-Russia International Accelerator School  Introduction to Particle Accelerators, Fuji, Susono, Shizuoka, Japan |
| September/2005 – July/2009 | Bachelor of Science, Applied Physics  College of Physics  **Jilin University** |

|  |  |
| --- | --- |
| Personal Skills |  |



|  |  |
| --- | --- |
| Scientific Softwares | * Master softwares includes: * **TraceWin, IMPaCT, RFQGen, PARMILA, LORASR, MADX, FLUKA,Geant4** * **EM field simulation：Superfish, CST, HFSS** * Other computer languages：Matlab, Python, R, C++, Java |

|  |  |
| --- | --- |
| Other skills | * **The design of Linac and beam transport line** * The beam dynamic of RFQ and DTL * The design of RF Cavities and power couplers |

|  |  |
| --- | --- |
| ADDITIONAL INFORMATION |  |

|  |  |
| --- | --- |
| Publications  Patents  Conference Presentation | [1] Hong-Ping J, Shi-Nian F, Jun P, et al. Characterizing a proton beam with two different methods in beam halo experiments[J]. Chinese Physics C, 2014, 38(8): 087002. [2] Jun P, Tao H, Hua-Chang L, Hong-Ping J et al. Beam halo experiment at IHEP[J]. Chinese Physics C, 2013, 37(3): 037002. [3] Hongping Jiang, Shinian Fu, et al., Macroparticle simulation studies of a beam- core matching experiment, Proceedings of IPAC13, Shanghai, China May, 2013. [4] Hongping Jiang, Shinian Fu, et al., Studies of the low energy proton beam halo experiment, Proceedings of NA-PAC2013, Pasadena, 2013,October, CA USA [5] Hongping Jiang, Shinian Fu, et al., Beam Dynamics Analysis in the Beam Halo Experiments at IHEP, Proceedings of IPAC14, Dresden, Germany, June, 2014 [6]Hongping Jiang, et al., Measurements of Beam Halo by Wire Scanner Monitor, Proceedings of IBIC15, Melbourne, Australia, September, 2015 [7]Shuxin Zheng, Hongping Jiang et al., Design of the 230MeV proton accelerator for Xi’an Proton Application Facility, Proceedings of HB2016, Sweden, July, 2016 [8]Qingzi Xing, Hongping Jiang et al., Design of the 7MeV Linac Injector for the 200MeV Synchrotron of the Xi'an Proton Application Facility, Proceedings of HB2016, Sweden, July, 2016 [9]Qingzi Xing, Hongping Jiang et al., Present status of the high current linac at Tsinghua University and its application, Proceedings of HB2016, Sweden, July, 2016 [10]Wolong Liu, Hongping Jiang, et al., an Optimization Method of the Nose-Cone Buncher Cavity, Proceedings of IPAC18, Beijing, China, September, 2018 [11]Jiang, H., Chen, W., Zhang, T., Liu, J., Hao, H., Han, Z., ... & Zhang, J. (2019). SESRI 300 MeV Proton and Heavy Ion Accelerator. Journal of Physics: Conference Series, 2019  **[1]张健；蒋洪平；郝文旭；刘剑利；张韬；陈晚；郝焕锋；陈启明；韩正男；一种四杆型RFQ液压调谐系统级调谐杆锁死机构，2020-7-7，中国，ZL 2019 1 0599837.5.**  **[2]陈晚；郝焕锋；蒋洪平；刘剑利；张健；张韬；陈启明；韩正男；姚庆欢；李忠宇；李振宇；窦彦昕； 一种新型弧形斜边静电偏转板及粒子加速器斩波器，2020中国CN202010264501.6**  **[3]陈晚；郝焕锋；蒋洪平；刘剑利；张健；张韬；陈启明；韩正男；姚庆欢；李忠宇；李振宇；窦彦昕；一种高温超导无磁扼多离子变能量回旋加速器高频腔体，2020 中国CN202010264982.0**  **[4]陈晚；郝焕锋；蒋洪平；刘剑利；张健；张韬；陈启明；韩正男；姚庆欢；李忠宇；李振宇；窦彦昕；一种电流控制超宽带回旋加速器高频腔体,2020 中国 CN202010264504.X**  **NA-PAC13, Contributed oral presentation: Studies of the low energy proton beam halo experiment，Pasadena California USA**  **FCC Week 2022,** **The implementation of monochromatization to FCC-ee, Paris France** |