

魏树一



山东大学前沿交叉科学青岛研究院 Email: shuyi@sdu.edu.cn
中国山东青岛 (266237) Skype: shuyi.wei@live.com

个人信息

男, 出生于 1990 年 xx 月 xx 日

教育经历

本科: 2006 年 9 月至 2010 年 6 月, 山东大学物理学院, 物理学专业

博士: 2010 年 9 月至 2015 年 6 月, 山东大学物理学院, 理论物理专业

学位论文: [高能正负电子湮灭过程中碎裂函数的研究](#)

导师: 梁作堂 教授; 答辩时间: 2015 年 5 月 25 日

科研经历

博士后: 2015 年 9 月至 2017 年 8 月, 华中师范大学粒子所 (武汉)

博士后: 2017 年 9 月至 2019 年 9 月, 巴黎综合理工学院 (法国)

博士后: 2019 年 9 月至 2021 年 9 月, 欧洲理论核物理及相关学科研究中心 (意大利)

研究员: 2021 年 11 月至今, 山东大学前沿交叉科学青岛研究院 (青岛)

研究方向

量子色动力学; 高能核物理唯象; 三维核子结构; 小 x 胶子饱和物理

文章列表

1. **The decay contribution to the parity-odd fragmentation functions**
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2. **Correlations of dihadron polarization in central, peripheral and ultraperipheral heavy-ion collisions**
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3. **Parton shower algorithm with saturation effect**
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13. **Science requirements and detector concepts for the Electron-Ion Collider: EIC yellow report**
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14. **Isospin symmetry of fragmentation functions**
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15. **Saturation effects in SIDIS at very forward rapidities**
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16. **Exploring the non-perturbative Sudakov factor via Z^0 -boson production in pp collisions**
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17. **Exploring collective phenomena at the electron-ion collider**
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18. **Spin alignment of vector mesons in high energy pp collisions**
K.B. Chen, Z.T. Liang, Y.K. Song, S.Y. Wei. [Phys.Rev.D102, 034001](#). (2020)
19. **Collectivity of heavy mesons in proton-nucleus collisions**
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20. **Probing jet medium interaction via $Z(H) +$ jet momentum imbalance**
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21. **Medium-induced transverse momentum broadening via forward dijet correlations**
J.Y. Jia, S.Y. Wei, B.W. Xiao, F. Yuan. [Phys.Rev.D101, 094008](#). (2020)
22. **Probing parton saturation with forward Z^0 -boson production at small transverse momentum in pp and pA collisions**
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23. **Elliptic flow of heavy quarkonia in pA collisions**
C. Zhang, C. Marquet, G.Y. Qin, S.Y. Wei, B.W. Xiao. [Phys.Rev.Lett.122, 172302](#). (2019)
24. **Extracting jet transport coefficient via single hadron and dihadron productions in high-energy heavy-ion collisions**
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25. **On the dihadron angular correlations in forward pA collisions**
A. Staato, S.Y. Wei, B.W. Xiao, F. Yuan. [Phys.Lett.B784, 301-306](#). (2018)
26. **Dijet asymmetry in the resummation improved perturbative QCD approach**
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S.Y. Wei, K.B. Chen, Y.K. Song, Z.T. Liang. [Phys.Rev.D91, 034015](#). (2015)
33. **Three dimensional imaging of the nucleon and semi-inclusive high energy reactions**
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34. **Higher-twist contribution to fragmentation function in inclusive hadron production in e^+e^- annihilation**
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会议报告 [†: 报告人]

1. **Probing the spin-dependent fragmentation function in unpolarized pp and AA collisions at the LHC**
[S.Y. Wei](#)[†]. [CLHCP 2023](#). Shanghai, China.
2. **Elliptic flow in small collisional systems**
[S.Y. Wei](#)[†]. The 52nd International Symposium on Multiparticle Dynamics (ISMD 2023). [Gyongyos, Hungary](#).
3. **Inclusive hadron production in forward pA collisions**
*[Y. Sbi](#), [L. Wang](#), [S.Y. Wei](#)[†], [B.W. Xiao](#).
[Resummation, Evolution, Factorization 2022 \(REF2022\)](#). Online Talk. [Recording](#).*
4. **Elliptic flow at EicC**
[S.Y. Wei](#)[†]. [The 2nd EicC CDR workshop \(2022\)](#). Online Talk.

5. **Longitudinal and transverse polarizations of Λ hyperons in unpolarized SIDIS and e^+e^- annihilations**

[S.Y. Wei[†]](#) Spin 2021. Online Talk. [JPS Conference Proceedings](#).

6. **Angular de-correlation of forward di-hadrons: on the optimal p_T range to probe gluon saturation**

[G. Giacalone](#), [C. Marquet](#), [M. Matas](#), [S.Y. Wei[†]](#). [Hard Probes 2020](#). [Recording](#).

7. **Phenomenology of Sudakov Resummation in the CGC Framework**

[S.Y. Wei[†]](#). [Workshop on Resummation, Evolution, Factorization \(REF 2019\)](#). Pavia, Italy.

8. **Probing jet medium interaction via dijet and photon-jet p_T imbalance**

[L. Chen](#), [G.Y. Qin](#), [S.Y. Wei[†]](#), [B.W. Xiao](#), [H.Z. Zhang](#). [Hard Probes 2018](#). Aix-Les-Bains, Savoie, France.

9. **Dihadron angular correlations**

[S.Y. Wei[†]](#). [Probing QCD at the high energy frontier, 2018](#). Trento, Italy..

10. **Probing \hat{q} via back-to-back angular correlations and dijet asymmetry**

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11. **Dihadron angular correlation in pp, pA and AA collisions**

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12. **Probing transverse momentum broadening via dihadron and hadron-jet angular decorrelations**

[L. Chen](#), [G.Y. Qin](#), [S.Y. Wei[†]](#), [B.W. Xiao](#), [H.Z. Zhang](#). [Hard Probes 2016](#). Wuhan, China.

13. **Higher twist effects in e^+e^- annihilation at high energies**

[S.Y. Wei[†]](#). [21st International Symposium on Spin Physics \(Spin2014\)](#). Beijing, China.

会议文集 [†: 报告人]

1. **Probing transverse momentum broadening via jet-related angular correlations in relativistic nuclear collisions**

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发表于: [Nucl.Phys. A967 \(2017\) 496-499](#).

2. **The elliptic asymmetry of heavy quarkonia in pA collisions from the initial state**

[C. Zhang[†]](#), [C. Marquet](#), [G.Y. Qin](#), [Y. Shi](#), [L. Wang](#), [S.Y. Wei](#), [B.W. Xiao](#). [Quark Matter 2019](#).

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