

李波教授----博导

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个人简述

李波, 男, 1976年5月生, 1992至2001年就读于中国科学技术大学, 2001年12月获空间物理学博士学位。2002年7月至2009年3月在英国Aberystwyth大学太阳系物理组任研究助理, 2009年6月受聘为山东大学(威海)空间科学与物理学院教授、博士生导师。2011年入选教育部“新世纪优秀人才支持计划”。2012年获山东省自然科学杰出青年基金支持。现为中国空间科学学会第八届理事空间物理专业委员会委员。

主要从事日冕加热和太阳风加热加速的物理机制这一太阳和空间物理前沿课题的研究。迄今已发表SCI论文30篇(第一和通讯作者论文19篇)。所发表论文已获国际同行SCI他引57篇次, 并被Springer出版社2008年发行的教科书《The Sun from Space》和近期美国同行向美国国家研究理事会(NRC)太阳及空间物理十年纵览项目提交的白皮书所引用。曾应美国地球物理协会(AGU)通讯《Eos》编辑邀请撰写书评2篇, 曾为教育部等四部门组织之《10000个科学难题》系列丛书的天文学卷撰写《太阳风的起源》一章, 应《空间物理学进展》第4卷主编邀请撰写《太阳风加速与太阳开场区日冕加热》一章。目前正主持国家自然科学基金项目两项、教育部博士点基金(博导类)一项。曾在国际地磁与高空物理协会(IAGA)科学大会、国际天体物理年会(AIAC)及国际数值空间等离子体流动会议(AstroNum-2011、2012及2013)等重要国际学术会议上做6个邀请报告, 曾在欧洲地球科学学会(EGU)2006年会、亚洲大洋洲地球科学学会(AOGS)2010年会、AGU2012年秋季会议上做分组报告。连续在AOGS 2012及2013年会上召集并主持了Turbulence专题会议。曾担任Astrophysical Journal、Journal of Geophysical Research (Space Physics)、太平洋天文学会(ASP)会议文集、《中国科学》、《物理学进展》、《天文学进展》及《山东大学学报(理学版)》等7家国内外重要学术刊物审稿人。

个人信息

出生日期	1976年5月21日
出生地	山东临清

个人技能

语言	英语: 流利
计算机	<ul style="list-style-type: none"> <li>◆ 有丰富的使用及管理Linux (Gentoo及Fedora)和MS Windows系统的经验</li> <li>◆ 有丰富的使用Fortran 77及IDL编程的经验</li> <li>◆ 有使用OpenMP在shared memory机器上并行化的成功经验</li> <li>◆ 有丰富的使用LaTex和MS Word进行文档编辑的经验</li> </ul>

专业团体

中国空间科学学会	会员(2012年至今)
American Geophysical Union	会员(2011年至今)
European Geosciences Union	会员(2008)

学习经历

1992.09-1996.07	中国科学技术大学 近代物理系 核物理与核技术专业 理学学士
1996.09-2001.12	中国科学技术大学 地球和空间科学学院 空间物理专业 理学博士 导师: 王水院士 论文: 太阳色球-日冕中磁流波的传播

工作经历	
2009.06至今	山东大学（威海）空间科学与物理学院 “齐鲁青年学者”特聘教授、博士生导师
2002.07-2009.03	<b>Post-Doctoral Research Assistant</b> Institute of Mathematics and Physics Aberystwyth University  职责： 在太阳系物理研究组从事研究 参与物理系本科专业课教学工作 协助指导博士生Ian O' Neill（已于2006年6月毕业）

### 在研科研项目

项目编号 ) 批准号 (	项目名称	经费 ) 万元 (	起止年月	负责或参加	进行情况	备注
41274176	日冕物质抛射热力学的多元磁流体模型研究	80	2013.01-2016.12	负责		国家自然科学基金委面上项目
JQ201212	空间物理学	50	2012.07-2015.07	负责		山东省自然科学基金杰出青年基金
20110131110058	太阳过渡区的多流体模型研究	12	2012.01-2014.12	负责		教育部博士点基金) 博导类 (
NCET-11-0305	教育部“新世纪优秀”人才支持计划	50	2012.01-2014.12	负责		
41174154	湍动Alfven波与开场区日冕加热和太阳风加速	80	2012.01-2015.12	负责		国家自然科学基金委面上项目
40904047	冕流的加热及稳定性与低速太阳风的起源	20	2010.01-2012.12	负责	在研	国家自然科学基金委青年基金项目
Y12629A49	太阳开场区的过渡区结构、日冕加热和太阳风加速	10	2011.01-2012.12	负责	结题	中国科学院空间天气学国家重点实验室开放课题重点项目
08262DAA4S	冕流区的稳定性与低速太阳风起源之间关系的模型研究	4	2009.07-2011.06	负责	结题	中国科学院空间天气学国家重点实验室开放课题项目

### 教学经历

<ul style="list-style-type: none"> <li>● 2011.09-2012.01, 山东大学威海分校, 电动力学</li> <li>● 2010.09-2011.01, 山东大学威海分校, 电动力学</li> <li>● 2009.09-2010.01, 山东大学威海分校, 电动力学</li> <li>● <b>PH12020: Classical Physics: Electricity and Magnetism (Mar 2009), Aberystwyth University, UK</b> <ul style="list-style-type: none"> <li>◆ 我负责其中电磁学的12次教学</li> </ul> </li> <li>● <b>PH39320: Ionised atmospheres and space plasma (Mar 2009), Aberystwyth University, UK</b> <ul style="list-style-type: none"> <li>◆ 我负责其中磁流体力学的7次教学</li> </ul> </li> <li>● <b>PH39320: Ionised atmospheres and space plasma (April 2007), Aberystwyth University, UK</b> <ul style="list-style-type: none"> <li>◆ 我负责其中磁流体间断与激波的2次教学</li> </ul> </li> </ul>
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## 已投稿论文

1. **B. Li\***, M. Xiong, X. Li, & S. R. Habbal, An anisotropic-Alfvenic-turbulence-based solar wind model with proton temperature anisotropy, *Astrophysical Journal*, 已投稿 2013
2. H. Yu, **B. Li\***, L.-D. Xia, The period ratio for standing kink and sausage modes in solar structures with siphon flow. II. magnetized cylinders, *Astrophysical Journal*, 已投稿 2013 通讯作者
3. O. W. Roberts, X. Li\*, & **B. Li**, Kinetic plasma turbulence in the fast solar wind measured by Cluster, *Astrophysical Journal*, 已投稿 2013 (审稿意见为小修改)

## 已发表论文

1. **B. Li\***, S. R. Habbal, & Y.-J. Chen, The period ratio for standing kink and sausage modes in solar structures with siphon flow. I. magnetized slabs, *Astrophysical Journal*, 已接受 2013
2. Guo, J., Q. Yang, G. Zhu, & **B. Li\***, Double layers and ion-acoustic waves with a particle-in-cell simulation, *Plasma Science & Technology*, 已接受, (2013) 通讯作者
3. \*Deng, L.H., **B. Li**, Y.F. Zhenga, & X.M. Cheng, Relative phase analyses of 10.7 cm solar radio flux with sunspot numbers, *New Astronomy*, <http://dx.doi.org/10.1016/j.newast.2013.01.004> (2013) Feb 2013 online
4. \***B. Li** & S. R. Habbal, An anisotropic-Alfvenic-turbulence-based solar wind model with proton temperature anisotropy, *AstroNum-2012*, 已接受 Dec 2012 国际会议邀请报告论文
5. **B. Li\***, and X. Li, Modeling the multi-component solar wind: a few numerical aspects and potential applications to stellar winds (审稿类会议文集 *AstroNum-2011 Conference Proceedings*) *Astronomical Society of the Pacific Conference Series*, Vol. 459. Edited by N.V. Pogorelov, J.A. Font, E. Audit, and G.P. Zank. San Francisco: Astronomical Society of the Pacific, 216-221 (2012) Jul 2012 国际会议邀请报告论文
6. **B. Li\***, X. Li, and H. Yu, Interpretation of the coronal magnetic field configuration of the Sun, *Research in Astronomy and Astrophysics*, 12(12):1693-1700 (2012) Dec 2012
7. **B. Li\***, Y. Chen, and L.-D. Xia, What geometrical factors determine the in situ solar wind speed? *Chinese Science Bulletin*, 57(12):1409-1414, doi: 10.1007/s11434-011-4965-2 (2012) 20 April 2012
8. H.Q. Song, X.L. Kong, Y. Chen\*, **B. Li**, G. Li, S.W. Feng, and L.D. Xia, A Statistical Study on the Morphology of Rays and Dynamics of Blobs in the Wake of Coronal Mass Ejections, *Solar Physics*, DOI 10.1007/s11207-011-9848-9, 276: 261-276 (2012) Feb 2012
9. 陈耀\*, 冯士伟, 宋红强, 李波, 孔祥良, 夏利东, 李醒, 李刚, 冕流波及其冕震学应用研究综述, *山东大学学报(理学版)*, 46(10):1-9 (2011) Oct 2011
10. S.W. Feng, Y. Chen\*, **B. Li**, H.Q. Song, X.L. Kong, L.D. Xia, and X.S. Feng, Streamer Wave Events Observed in Solar Cycle 23, *Solar Physics*, 272(1):119 - 136, DOI 10.1007/s11207-011-9814-6 (2011) Aug 2011
11. **B. Li\***, L.-D. Xia, and Y. Chen, Solar winds along curved magnetic field lines, *Astronomy & Astrophysics*, 529, A148, 6pp, (2011) May 2011
12. **Bo Li\***, Yanjun Chen, and Xing Li, Standing shocks in the inner slow solar wind, *Chinese Physics Letters*, 28(5), 059601, 4pp, (2011) May 2011
13. Y. Chen\*, S. W. Feng, **B. Li**, H. Q. Song, L. D. Xia, X. L. Kong, and X. Li, A Coronal Seismological Study with Streamer Waves. *Astrophysical Journal*, 728(2), 147, 6pp, (2011) FEB 20 2011
14. X. Li\*, Q. Lu, Y. Chen, **B. Li**, and L. Xia, A Kinetic Alfven Wave and the Proton Distribution Function in the Fast Solar Wind, *Astrophysical Journal Letters*, 719(2):L190-L193 (2010) AUG 20 2010
15. Y. Chen\*, H. Q. Song, **B. Li**, L. D. Xia, Z. Wu, H. Fu, and X. Li, Streamer Waves Driven by Coronal Mass Ejections, *Astrophysical Journal*, 714(1), 644-651 (2010) MAY 1 2010
16. **Bo Li\***, and Xing Li, Angular momentum transport in a multicomponent solar wind with differentially flowing, thermally anisotropic ions, *Astronomy & Astrophysics*, 494(1), 361-371 (2009) JAN 2009
17. **Bo Li\***, and Xing Li, Effects of non-WKB Alfven waves on a multicomponent solar wind with differential ion flow, *Astrophysical Journal*, 682(1), 667-678 (2008) JUL 20 2008
18. Huw Morgan\*, Silvano Fineschi, Shadia Rifai Habbal, and **Bo Li**, In Situ Spectroscopy of the Solar Corona, *Astronomy & Astrophysics*, 482(3), 981-987 (2008) MAY 2008
19. **Bo Li\***, and Xing Li, Propagation of non-Wentzel-Kramers-Brillouin Alfven waves in a multicomponent solar wind with differential ion flow, *Astrophysical Journal*, 661(2), 1222-1233 (2007) JUN 1 2007
20. **Bo Li\***, Shadia Rifai Habbal, and Xing Li, Angular momentum transport and proton - alpha particle differential streaming in the solar wind, *Astrophysical Journal*, 661(1), 593-601 (2007) MAY 20 2007
21. Xing Li\*, Quanming Lu, and **Bo Li**, Ion pickup by finite amplitude parallel propagating Alfven waves, *Astrophysical Journal Letters*, 661(1), L105-L108 (2007) MAY 20 2007
22. **B. Li\***, and X. Li, Effects of alpha particles on the angular momentum loss from the Sun, *Astronomy & Astrophysics*, 456(1), 359-365 (2006) SEP 2006
23. N. Labrosse\*, X. Li, and **B. Li**, On the Lyman alpha and beta lines in solar coronal streamers, *Astronomy & Astrophysics*, 455(2), 719-723 (2006) AUG 2006
24. **Bo Li\***, Xing Li, and Nicolas Labrosse, A global 2.5-dimensional three fluid solar wind model with alpha particles, *Journal of Geophysical Research*, 111 (A08), A08106, doi:10.1029/2005JA011303 (2006) AUG 24 2006
25. **Bo Li\***, and Xing Li, Alfvenic-turbulence-heated magnetic loops: effects of lateral expansion and magnetic twist, *Philosophical Transactions of the Royal Society A*, 364(1839), 533-536, doi:10.1098/rsta.2005.1715 (2006) FEB 15 2006
26. **Bo Li\***, Shadia Rifai Habbal, Xing Li, and Chris Mountford, Effect of the latitudinal distribution of temperature at the coronal base on the interplanetary magnetic field configuration and the solar wind flow, *Journal of Geophysical Research*, 110(A12), A12112, doi:10.1029/2005JA011332 (2005) DEC 30 2005
27. S. T. Wu, **B. Li**, S. Wang\*, and Huinan Zheng, A three-dimensional analysis of global propagation of Magnetohydrodynamic (MHD) waves in a structured solar atmosphere, *Journal of Geophysical Research*, 110(A11), A11102, doi:10.1029/2005JA011056 (2005) NOV 11 2005

28. **Bo Li\***, Xing Li, You-Qiu Li, and Shadia R. Habbal, A two-dimensional Alfvén wave-driven solar wind model with proton temperature anisotropy, *Journal of Geophysical Research*, 109(A07), A07103, doi:10.1029/2003JA010313 (2004) **JUL 10 2004**
29. **Li, Bo**, Zheng, Hui-Nan, and \*Wang, Shui, Three-dimensional propagation of Magnetohydrodynamic waves in the solar chromosphere and corona, *Chinese Physics Letters*, 19(11), 1639-1642 (2002) **NOV 2002**
30. **Li, Bo**, Zheng, Hui-Nan, and \*Wang, Shui, Propagation of disturbances in the solar chromosphere and corona (II), *Chinese Astronomy & Astrophysics*, 26(4), 458-468 (2002) **OCT-DEC 2002**
31. \*Zheng, Hui-Nan, Wang, Shui, Wu, S. T., and **Li, Bo**, Magnetoacoustic waves in the solar stratified atmosphere, *Chinese Physics Letters*, 18(12), 1624-1627 (2001) **DEC 2001**
32. **Li, Bo**, and \*Wang, Shui, Propagation of Alfvén waves in multi-layer solar atmosphere model, *Chinese Astronomy & Astrophysics*, 25(4), 446-455 (2001) **OCT-DEC 2001**
33. **Li, Bo**, and \*Wang, Shui, Propagation of disturbances in the solar chromosphere and corona, *Chinese Astronomy & Astrophysics*, 25(2), 194-202 (2001) **APR-JUN 2001**
34. 王水\*, 李波, 赵寄昆, 日冕物质抛射, *天文学进展*, 18(3),192-208, (2000)

#### 非审稿类论文

35. **B. Li** and X. Li, Angular momentum transport and proton-alpha differential streaming in the low-latitude fast solar wind, in SOHO-17: 10 Years of SOHO and Beyond, ESA SP-617, CDROM, p.96.1 (2006)
36. N. Labrosse, X. Li, and **B. Li**, The Lyman  $\alpha$  and Lyman  $\beta$  lines in solar coronal streamers, in SOHO-17: 10 Years of SOHO and Beyond, ESA SP-617, CDROM, p.93.1 (2006)
37. Zheng, Huinan, Wang, Shui and **Li, Bo**, Magnetoacoustic waves in solar stratified atmosphere, in Stellar Astrophysics - A Tribute to Helmut A. Abt, eds: K. S. Cheng, Kam Ching Leung, and T. P. Li, Kluwer Academic Publishers, Dordrecht Hardbound, p.301-303 (2003)

#### 书评及其他

38. 李波, 太阳风加速与太阳开场区日冕加热, 空间物理学进展 (第4卷), (主编约稿), 2012年2月, 已交稿
39. 李波, 陈耀, 太阳风的起源, 《十万个科学难题—天文学卷》, 科学出版社, 2010年12月, 北京
40. **Bo Li**, Invited Book Review of “The Heliosphere through the Solar Activity Cycle”, Andre Balogh, Louis J. Lanzerotti, & Steven T. Suess (Eds.), Springer & Praxis, New York, SBN 978-3-540-74301-9, xxvi + 286pp., 2008, Eos, Vol 89, no 41, 7 **Oct 2008**
41. **Bo Li**, Invited Book Review of “Discovering the Solar System”, second edition, Barrie W. Jones, Wiley, Chichester, West Sussex, England, ISBN 978-0-470-01830-9, xvi+453 pp., 2007, Eos, Vol 89, no 22, 27 **May 2008**

#### 国际会议

1. **Invited Talk: Bo Li**, TBD, The XIIIth Scientific Assembly of International Association of Geomagnetism and Aeronomy (IAGA 2013), Merida, Yucatan, Mexico, August 26-31, 2013 (受邀)
2. **Invited Talk: Bo Li**, TBD, the 8th International Conference on Numerical Modeling of Space Plasma Flows (AstroNum-2013), Biarritz, France, July 1 - 5, 2013 (受邀)
3. **Invited Talk: Bo Li**, TBD, the 12th Annual International Astrophysics conference, Myrtle Beach, South Carolina, US, April 15 - April 19, 2013 (受邀)
4. **Contributed Talk: Bo Li**, Contrasting the solar winds at the solar cycle 23-24 minimum with those at the previous one: can this help tell what mechanisms are heating and accelerating the solar wind? American Geophysical Union (AGU) Fall Meeting, San Francisco, US, 3 - 7 Dec 2012
5. **Poster: Bo Li** & Shadia Rifai Habbal, An anisotropic-Alfvénic-turbulence-based solar wind model with proton temperature anisotropy, Asia Oceania Geosciences Society (AOGS)-AGU(WPGM) Joint Assembly, Singapore, August 13-17 2012
6. **Poster: Bo Li**, Li-Dong Xia, & Yao Chen, Physical interpretations of geometry-based methods for forecasting the solar wind speed in interplanetary space, Asia Oceania Geosciences Society (AOGS)-AGU(WPGM) Joint Assembly, Singapore, August 13-17 2012
7. **Invited Talk: Bo Li**, & Shadia Rifai Habbal, An anisotropic-turbulence-based solar wind model with proton temperature anisotropy, the 7th International Conference on Numerical Modeling of Space Plasma Flows (AstroNum-2012), Big Island, Hawaii, US June 25-29, 2012 (受邀)
8. **Invited Talk: Bo Li**, Xing Li, You-Qiu Hu, & Shadia Rifai Habbal, Modeling the multi-component solar wind: a few numerical aspects and potential applications to stellar winds, the 6th International Conference on Numerical Modeling of Space Plasma Flows (AstroNum-2011), June 13-17, 2011 - Valencia, Spain (受邀)
9. **Contributed Talk: Bo Li**, & Xing Li, Effects of non-WKB Alfvén waves in accelerating the multicomponent solar wind, AOGS2010 - 7<sup>th</sup> Annual Meeting of the Asia Oceania Geosciences Society, Hyderabad, India, Jul 05 - Jul 09, 2010
10. **Contributed Talk: Bo Li**, & Xing Li, Effects of non-WKB Alfvén waves in accelerating a multicomponent solar wind, West Lake International Symposium on Space Plasma Physics, Hangzhou, China, Apr 18 - Apr 21, 2010
11. **Invited Talk: Bo Li**, Xing Li, & Shadia Rifai Habbal, Some time-dependent processes inside solar coronal streamers, The 2nd International Space Weather Symposium, Nanjing, China, Oct 17 - Oct 21, 2009 (受邀)
12. **Poster: Li, B.**, & Li, X., Effects of non-WKB Alfvén waves on a multicomponent solar wind, EGU General Assembly 2008, Vienna, Austria, Apr 13 - Apr 18, 2008
13. **Poster: Li, X**, Lu, Q.-M., & **Li, B.**, Ion pick-up by finite amplitude Alfvén waves, EGU General Assembly 2007, Vienna, Austria, Apr 15 - Apr 20, 2007
14. **Poster: Li, B.**, & Li, X., Propagation of non-WKB Alfvén waves in a multicomponent solar wind with differential ion flow, EGU General Assembly 2007, Vienna, Austria, Apr 15 - Apr 20, 2007
15. **Poster: Li, B.**, & Li, X., Angular momentum transport and proton-alpha differential streaming in the low-latitude fast solar wind, SOHO-17, Giardini Naxos, Sicily, Italy, May 07 - May 12, 2006
16. **Contributed talk: Bo Li** & Xing Li, Effects of alpha particles on the angular momentum loss from the Sun, European Geosciences Union General Assembly 2006, Vienna, Austria, Apr 02 - Apr 07, 2006



### 国内会议

18. 邀请报告: 李波, The period ratio for standing kink and sausage modes in coronal slabs with siphon flow, 第八次全国空间天气学研讨会, 济南 2012年9月20 - 25日
19. 报告: 李波, An anisotropic-Alfvénic-turbulence-based solar wind model with proton temperature anisotropy, 第十届太空科学研讨会, 成都, 2012年8月20-24日
20. 邀请报告: 李波, A multi-fluid magnetohydrodynamic approach for modelling the solar corona and solar wind incorporating microphysics, *MHD and Energetic Particles in Laboratory, Space and Astrophysical Plasmas* 2012年7月3, 北京, 主题会议-6日
21. 报告: 李波, 日冕磁场曲率对太阳风参数的影响, 空间物理学年会, 重庆, 2011年10月25-30日
22. 邀请报告: 李波, 太阳风加速与开场区日冕加热--多元流体模型的若干结果, 全国空间天气亮点研究方向研讨会, 西安, 2011年7月24-28日
23. 报告: 李波, What geometrical factors determine the in situ solar wind speed? “日地活动现象中基本等离子体过程”学术研讨会, 洛阳, 2011年6月21日-24日
24. 邀请报告: 李波, standing shocks around the streamer cusp: their formation, stability, and implications for in situ solar wind measurements, 第七次全国空间天气学研讨会, 上海, 2010年7月27日-8月2日
25. 报告: 李波, 多成分太阳风中角动量的输运与质子— $\alpha$ 粒子间的较差流动, 第十三届全国日地空间物理学术讨论会, 银川, 2009年8月16日-8月20日

### 英国会议

26. **Poster: Gert Botha, Bo Li, & E. A. Evangelidis,** Energy deposition in the corona by reconnection events, National Astronomy Meeting/UKSolar Physics/MIST 2008, Belfast, UK, 31st March - 4th April, 2008
27. **Poster: Li, B & Li, X.,** Propagation of non-WKB Alfvén waves in a multicomponent solar wind, National Astronomy Meeting/UKSP/MIST 2007, Preston, UK, Apr 16 - Apr 20, 2007.
28. **Talk: Li, B., Li, X., & Labrosse, N.,** A 2.5-dimensional solar wind model with alpha particles, MIST/UKSP, Aberystwyth, Wales, UK, Apr 10 - Apr 13, 2006
29. **Poster: Li, B., Li, X., Hu, Y.-Q., & Habbal, S. R.,** A two-dimensional Alfvén-wave-driven solar wind model with proton temperature anisotropy, Auld Reekie MIST/UKSP, Edinburgh, Scotland, UK, Mar 29 - Apr 01, 2004

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