**附件1：**

**粤港澳大湾区物理学会2023联合年会**

**Conference Registration Form**

**参会回执**

**Participant’s Information**

**参会者信息**

|  |  |  |  |
| --- | --- | --- | --- |
| Family Name: |  | First Name: |  |
| 姓 |  | 名 |  |
| Title: |  | | |
| 头衔 |  | | |
| Organization/Institution: |  | | |
| 所在单位/机构 |  | | |
| Address: |  | | |
| 地址 |  | | |
| Contact Number: |  | | |
| 联系电话 |  | | |
| Email Address: |  | | |
| 电子邮件 |  | | |

Please put a ✓ in the appropriate brackets.

请在适当的括号内打勾（✓）

**Registration Fees**

**注册费用**

*Up to 15 June 2023*  *After 15 June 2023*

*2023/6/15之前 2023/6/15之后*

Regular ( ) HKD 2,000 ( ) HKD 2,400

普通 港币2000 港币2400

Student/Retiree ( ) HKD 1000 ( ) HKD 1200

学生/离退休人员 港币1000 港币1200

Registration fee includes 1 dinner and 5 tea/coffee breaks.

注册费用包含1个晚餐和5个茶歇。

**Payment Method**

**付款方式**

会议费由香港城市大学统一收取，请关注网站[www.yga2023.com](http://www.yga2023.com)的更新。

**附件2：**

**粤港澳大湾区物理学会2023联合年会**

**口头报告及张贴报告 回执**

**Presenter: (Please ONLY provide the presenter’s name)**

**演讲人 (只需提供演讲者信息)**

**Affiliation(s):**

**所属机构**

**E-mail Address:**

**电子邮箱**

Please put a ✓ in the appropriate brackets.

请在适当的括号内打勾[✓]

1. Please indicate your preference of presentation format:  
   请表明您优先选择的报告方式：

[ ] Poster [ ] Oral

张贴报告 口头报告

1. If oral presentation is selected, please indicate **ONE theme** for the presentation of your work.   
   如果您优先选择的是口头报告，请选择您进行报告所属的主题

[ ] Astrophysics and Astronomy [天体物理和宇宙学]

[ ] Atomic, Molecular and Optical Physics [原子、分子与光物理]

[ ] Biophysics and Soft Matter [生物物理和软物质]

[ ] Condensed Matter Theory and Computational Physics [凝聚态理论和计算物理]

[ ] Condensed Matter Physics, Materials Physics and Engineering [凝聚态物理、材料物理和工程物理]

[ ] Interdisciplinary Physics and Applied Physics [物理交叉学科和应用物理]

[ ] Scattering, Particle, Nuclear and Plasma Physics [散射物理、粒子物理、核物理、等离子物理]

[ ] Quantum Physics [量子物理]

[ ] Statistical Physics [统计物理]

[ ] Physics Education [物理教育]

**Title of Presentation (报告题目):**

Quantum Spin Hall Effect in Graphene

**Abstract (摘要):**

We study the effects of spin orbit interactions on the low energy electronic structure of a single plane of graphene. We find that in an experimentally accessible low temperature regime the symmetry allowed spin orbit potential converts graphene from an ideal two-dimensional semimetallic state to a quantum spin Hall insulator. This novel electronic state of matter is gapped in the bulk and supports the transport of spin and charge in gapless edge states that propagate at the sample boundaries. The edge states are nonchiral, but they are insensitive to disorder because their directionality is correlated with spin. The spin and charge conductances in these edge states are calculated and the effects of temperature, chemical potential, Rashba coupling, disorder, and symmetry breaking fields are discussed.

**References (参考文献):**

[1] S. Murakami, N. Nagaosa, and S. C. Zhang, Science **301**, 1348 (2003).

*\*The above is just an example. Please replace the above with your own contents.   
\*以上仅为示例。请替换成您自己的内容。*

*\*The length of an abstract (above content, including possible figures, tables, etc.) is limited to one page.  
\*摘要长度限制在一页之内。*