



## **Research Papers**

### **Berry phase and anomalous velocity of Weyl fermions and Maxwell photons**

*Michael Stone*

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### **Effects of frustration and cyclic exchange on the spin-1/2 Heisenberg antiferromagnet within the self-consistent spin-wave theory**

*Milica S. Rutonjski, Milica V. Pavkov-Hrvojević, Maja B. Berović*

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### **Influence of community structure on the synchronization of power network**

*Li-Xin Yang, Jun Jiang, Xiao-Jun Liu*

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### **Weak signal detection and propagation in diluted feed-forward neural network with recurrent excitation and inhibition**

*Jiang Wang, Ruixue Han, Xilei Wei, Yingmei Qin, Haitao Yu, Bin Deng*

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### **Resonant excitation of coupled skyrmions by spin-transfer torque**

*Y. Y. Dai, H. Wang, T. Yang, Z. D. Zhang*

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### **Genomes: At the edge of chaos with maximum information capacity**

*Sing-Guan Kong, Hong-Da Chen, Andrew Torda, H. C. Lee*

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### **Some methods to regulate low-bias negative differential resistance in $\sigma^{\sigma}$ barrier separating nanoscale molecular transport systems**

*Ji-Mei Shen, Jing Liu, Yi Min, Li-Ping Zhou*

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### **Electric current generation in distorted graphene**

*Ana Julia Mizher, Alfredo Raya, Cristián Villavicencio*

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### **Input–output mapping reconstruction of spike trains at dorsal horn evoked by manual acupuncture**

*Xilei Wei, Dingtian Shi, Haitao Yu, Bin Deng, Meili Lu, Chunxiao Han, Jiang Wang*

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## **Erratum**

### **Erratum: “Energetic behavior of excitons in hybrid organic–inorganic parabolic quantum dots and its electric field dependence”**

*Rym Ridene, Nouha Mastour, Dhouha Gamra, Habib Bouchriha*

1592005