



## **Reviews**

### **Gauge-Higgs EW and grand unification**

*Yutaka Hosotani*

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### **Colour octet extension of 2HDM**

*German Valencia*

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### **Pentaquarks and possible anomalies at LHCb**

*G. Lafferty, on behalf of the LHCb Collaboration*

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### **Neutrino experiments: Hierarchy, CP, CPT**

*Manmohan Gupta, Monika Randhawa, Mandip Singh*

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## **Research Papers**

### **Finite field-dependent BRST–anti-BRST transformations: Jacobians and application to the Standard Model**

*Pavel Yu. Moshin, Alexander A. Reshetnyak*

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### **A new approach to the classical and quantum dynamics of branes**

*Matej Pavšič*

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### **$D \rightarrow a_1, f_1$ transition form factors and semileptonic decays via 3-point QCD sum rules**

*Yabing Zuo, Yue Hu, Linlin He, Wei Yang, Yan Chen, Yannan Hao*

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### **Relativistic Landau models and generation of fuzzy spheres**

*Kazuki Hasebe*

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### **Entropy production in the early-cosmology pionic phase**

*Antonio Dobado, Felipe J. Llanes-Estrada, David Rodríguez Fernández*

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### **Charged Higgs pair production at the LHC as a probe of the top-seesaw assisted technicolor model**

*Guo-Li Liu, Ping Zhou, Xiao-Fei Guo, Kun Wu, Ji Jiang*

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### **Casimir operator dependences of nonperturbative fermionic QCD amplitudes**

*H. M. Fried, T. Grandou, R. Hofmann*

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**Two loop neutrino model with dark matter and leptogenesis**

*Shoichi Kashiwase, Hiroshi Okada, Yuta Orikasa, Takashi Toma*

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**Quantized gravitoelectromagnetism theory at finite temperature**

*A. F. Santos, Faqir C. Khanna*

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**Neutrino oscillations in the presence of super-light sterile neutrinos**

*Paraskevi Divari, John Vergados*

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