



## **Reviews**

### **On the physics of the minimal length: The question of gauge invariance**

*Lay Nam Chang, Djordje Minic, Ahmed Roman, Chen Sun, Tatsu Takeuchi*

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### **Some thoughts about Yang–Mills theory**

*A. Zee*

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## **Research Papers**

### **Examining a covariant and renormalizable quantum field theory in de Sitter space by studying “black hole radiation”**

*Hamed Pejhan, Surena Rahbardehghan*

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### **Asymptotic regimes for hadron diffractive scatterings and Coulomb interaction:**

#### **Arguments for the black disk mode**

*V. V. Anisovich, V. A. Nikonov, J. Nyiri*

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### **Superfield Hamiltonian quantization in terms of quantum antibrackets**

*Igor A. Batalin, Peter M. Lavrov*

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### **Exploring the thermodynamics of noncommutative scalar fields**

*Francisco A. Brito, Elisama E. M. Lima*

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### **Nonlinear electromagnetic fields as a source of universe acceleration**

*S. I. Kruglov*

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### **Constraints on the $U(1)_L$ gauge boson in a wide mass range**

*Yu Seon Jeong, C. S. Kim, Hye-Sung Lee*

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### **Mass and angular momentum of black holes in low-energy heterotic string theory**

*Jun-Jin Peng*

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**Ward–Takahashi identities for Abelian chiral gauge theories**

*Ana Paula Cardoso Rodrigues de Lima, Sebastião Alves Dias*

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**Dynamical electroweak symmetry breaking in the model of electroweak-scale right-handed neutrinos**

*Pham Quang Hung, Nguyen Nhu Le*

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