



Review Paper

Core-halo quasi-stationary states in the Hamiltonian mean-field model

Eiji Konishi

1630007

Research Papers

On the gravitational field of a radiating, isothermal perfect gas cloud

L. M. B. C. Campos

1650038

Reflective three-port high-efficiency grating with two dielectric layers based on a sandwiched configuration

Hongtao Li, Bo Wang, Hao Pei, Wenhao Shu, Li Chen, Liang Lei, Jinyun Zhou

1650072

Multiferroicity in ZnO nanodumbbell/BiFeO₃ nanoparticle heterostructures

Dabbugalla Mahesh, Swapan K. Mandal

1650074

First principle study of a new half-metallic ferrimagnetic full-Heusler alloy Ti₂VPb

Bouabdallah Hamri, Abdelkrim Hamri, Aida Hamri, Abbes Hallouche, Boucif Abbar

1650076

GGA+U and mBJ+U study of the optoelectronic, magnetic and thermoelectric properties of the SmAlO₃ compound with spin-orbit coupling

Sandeep Chettri, D. P. Raj, A. Shankar, R. Khenata, M. P. Ghimire, R. K. Thapa, S. Bin Omran

1650078

Detection of shape and sizes of magnetic impurity based on the shape of magnetic domain configuration

M. L. Akimov, P. A. Polyakov, A. A. Banishev, N. N. Usmanov

1650081