

# Matter and Radiation at Extremes

Volume 2, Issue 1, January 2017

## Table of Contents

### Editorial

Editorial for special issue on laser fusion  
Ke Lan, Mike Campbell

1

### Letter

Non-equilibrium between ions and electrons inside hot spots from National Ignition Facility experiments  
Zhengfeng Fan, Yuanyuan Liu, Bin Liu, Chengxin Yu, Ke Lan, Jie Liu

3

### Research Articles

Effects of mode coupling between low-mode radiation flux asymmetry and intermediate-mode ablator roughness on ignition capsule implosions

Jianfa Gu, Zhensheng Dai, Shiyang Zou, Wenhua Ye, Wudi Zheng, Peijun Gu, Shaoping Zhu

9

Aluminum X-ray mass-ablation rate measurements

J.L. Kline, J.D. Hager

16

Analysis of hohlraum energetics of the SG series and the NIF experiments with energy balance model

Guoli Ren, Jie Liu, Wenyi Huo, Ke Lan

22

On intense proton beam generation and transport in hollow cones

J.J. Honrubia, A. Morace, M. Murakami

28