

## **SHORT COMMUNICATION**

- 052101** Use of the relativistic phase-time equation in absolute ballistic gravimetry  
G D'Agostino

## **FOCUS ISSUES**

- 054001** Shades of dark uncertainty and consensus value for the Newtonian constant of gravitation  
Christos Merkatas, Blaza Toman, Antonio Possolo and Stephan Schlamminger
- 054002** Development of nuclear magnetic resonance as a tool of quantitative analysis for organic materials  
Takeshi Saito, Taichi Yamazaki and Masahiko Numata

## **PAPERS**

- 055001** Flat-field calibration method for hyperspectral frame cameras  
Alexander Kokka, Tomi Pulli, Eija Honkavaara, Lauri Markelin, Petri Kärhä and Erkki Ikonen
- 055002** Interlaboratory comparison of nanoparticle size measurements between NMIJ and NIST using two different types of dynamic light scattering instruments  
Kayori Takahashi, John A Kramar, Natalia Farkas, Keiji Takahata, Ichiko Misumi, Kentaro Sugawara, Satoshi Gonda and Kensei Ehara
- 055003** Monte Carlo sampling bias in the microwave uncertainty framework\*  
Michael Frey, Benjamin F Jamroz, Amanda Koepke, Jacob D Rezac and Dylan Williams
- 055004** Corrections of the travelling-fringe period for the interference of aberrated beams  
G Mana and C P Sasso
- 055005** Deviation of white diffuse reflectance standards from perfect reflecting diffuser at visible and near-infrared spectral ranges  
B Bernad, A Ferrero, C Strothkämper, J Campos, A Pons, T Quast, K-O Hauer and A Schirmacher
- 055006** On the determination of vertical gravity gradients by corner-cube absolute gravimeters  
Vojtech Pálinkáš, Petr Křen, Miloš Vaňko and Pavel Mašík
- 055007** Chi-squared test for binned, Gaussian samples  
Nicholas R Hutzler
- 055008** Calibration of a radiosonde humidity sensor at low temperature and low pressure  
Sang-Wook Lee, Byung Il Choi, Sang-Bong Woo, Jong Chul Kim and Yong-Gyoo Kim
- 055009** On a definition of the SI second with a set of optical clock transitions  
Jérôme Lodewyck
- 055010** Performance of WC–C peritectic and Ru–C eutectic fixed points  
N Sasajima, X Lu, B Khlevnov, I Grigoryeva, Y S Yoo, D Otryaskin, S Markin, T Wang and Y Yamada