Kyoto Journal of Mathematics

Volume 55 · Number 3 · September 2015

501 **On an invariance property of the space of smooth vectors**
Karl-Hermann Neeb, Hadi Salmasian, and Christoph Zellner

517 **Linear flags and Koszul filtrations**
Viviana Ene, Jürgen Herzog, and Takayuki Hibi

531 **A Bertini-type theorem for free arithmetic linear series**
Hideaki Ikoma

543 **Duality theorem for topological semigroups**
Nobuhiko Tatsuuma

555 **Entropic solution of the innovation conjecture of T. Kailath**
Ali Süleyman Üstünel

567 **On some aspects of duality principle**
Vladica Andrejić and Zoran Rakić

579 **Smooth Fano polytopes arising from finite directed graphs**
Akihiro Higashitani

593 **Multiple solutions for asymptotically linear elliptic equations with sign-changing weight**
Nikolaos S. Papageorgiou and Vicenţiu D. Rădulescu

607 **On the minimality of canonically attached singular Hermitian metrics on certain nef line bundles**
Takayuki Koike

617 **On Thompson's p-complement theorems for saturated fusion systems**
Jon González-Sánchez, Albert Ruiz, and Antonio Viruel

627 **On homological stability for orthogonal and special orthogonal groups**
Masayuki Nakada

641 **Saito–Kurokawa lifts of square-free level**
Mahesh Agarwal and Jim Brown

663 **An affine version of a theorem of Nagata**
Gene Freudenburg

673 **Special values of the Riemann zeta function via arcsine random variables**
Takahiko Fujita