

World Congress on

CHROMATOGRAPHY AND SEPARATION SCIENCE

&

International Conference and Exhibition on

SATELLITE AND SPACE MISSIONS

November 12-13, 2018 | Rome, Italy

J Chem Tech App 2018, Volume 2

COSMOLOGICAL MODELS WITH BVDP

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The observed value of the deceleration parameter (DP) is always interesting in cosmology: The study of cosmological models with time dependent DP attracts cosmologists more after the discovery of accelerating expansion of the universe confirmed by Perlmutter & Riess et.al. [1-2] An idea of variable deceleration parameter is much important to measure the expansion rate of the universe. In this reference several authors have proposed many laws for DP including my peer research group [3]. In this study cosmological models with BVDP will be discussed. [1] Perlmutter, S., et al.: Discovery of a supernova explosion at half the age of the universe. *Nature* 391, 51 (1998). [2] Riess, A. G., et al.: Observational evidence from Supernova for an accelerating universe and cosmological constant. *Astrophys. J.* 116 1009 (1998). [3]: Mishra, R. K., et al. Cosmological models in alternate theory of gravity with bilinear deceleration parameter. *Astrophys. Space Sci.* 361, 259 (2016).