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Dr. Reena Tandon* (reena.tandon2008@gmail.com), 485 RAJA GARDEN KAPURTHALA ROAD, 485 Raja Garden , kapurthala Road, Jalandhar, IN 144001, India. *The phenomenological approach to the dark energy in the accelerating expansion of the universe.* Preliminary report.

Abstract: In this paper, we investigated the nature of dark energy in the expansion of the universe using BAO (Baryon Acoustic Oscillation) and constrain parameters of EOS (Equation of State). We proposed as Universe is expanding with negative pressure and low density but dark energy density remains unaffected while dealing with its different models, Which signifies it doesn't get diluted with the expansion of the universe.

Keywords: Dark Energy, Expansion, Pressure, Density, Accelerating. (Received March 09, 2021)