

The Origin of Dark Energy

It is well known that Einstein didn't believe initially the work of Hubble and V Slipher which indicated a Universe that was expanding, and was not static as Einstein would have expected. It is said that having observed the photographic plates from the then largest Mount Wilson Observatory Telescope, Einstein drew in his breath, as if in disbelief. He then introduced his concept of cosmic repulsion to accommodate the fact that all the galaxies are not collapsing inwards. He later termed this the biggest blunder of his life.

Curiously enough B G Sidharth predicted exactly this circumstance in his 1997 paper, *The Universe of Fluctuations*, in *International Journal of Modern Physics*. On this Nobel Laureate Tony Leggett observed, "... It is of course clear that your equation predicts an exponential (inflation-type) expansion of the current universe, hence acceleration. And it would have been nice if the Nobel committee had mentioned this."

This led to a dialogue with Professor Leggett particularly with respect to the work of Kardashev, a Russian Cosmologist. Kardashev also had hit upon the accelerating universe model but from the observational point of view and by a cosmic coincidence at the exactly same time as Sidharth.