



*Department of Physics  
Indian Institute of Science  
Bangalore*



## **P S NARAYANAN MEMORIAL LECTURE**



**Department of Physics  
Indian Institute of Science  
Bangalore**

## **GRAVITY AND THE COSMOS**



***J. Padmanabhan***

**Distinguished Professor  
IUCAA, Pune, India**

Recent research suggests the equations describing the gravitational dynamics have the same status as the equations of, say, fluid mechanics or elasticity. This result provides a refreshingly different way of interpreting spacetime dynamics in terms of a kinetic theory of 'atoms of spacetime'. It also relates the cosmological constant to the information content of the spacetime, thereby allowing the determination of its numerical value. So, hundred years after the creation of general relativity, we may be poised for yet another paradigm shift in our understanding of gravity.

**Date & Time : Thursday, 13 Oct. 2016, 16:00 hrs**

**Venue : Physical Sciences Auditorium**

**All are welcome**