

STOCHASTIC GEOMETRY AND COSMOLOGICAL PROBLEMS

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The frame work of stochastic or statistical geometry has been developed by mathematicians and statisticians mainly along the line initiated by Karl Menger. A few attempts have been made to realise it by applying it to physical theory. For last few years a few people including the speaker are trying to understand the significance of the statistical metric in the context of quantum gravity, cosmological constant problem and high energy Astrophysics.

In this lecture, the discussion will be concentrated mainly on these areas of research and the possible implications.