## Bianchi type-III string cosmological models for stiff and anti-stiff fluid in general relativity

## ABSTRACT

Bianchi type-III string cosmological models in the presence of stiff and anti-stiff fluids are studied. The scalar expansion is assumed to be proportional to the shear. In the present study, we consider two cases (i)p+ $\rho$ = 0 and (ii) p- $\rho$ = 0, where  $\rho$  and p are the rest energy density and the pressure of the fluid, respectively. The physical behavior of these models is also discussed.

Keyword: Bianchi type II models; Stiff fluid; Anti-stiff fluid