

1105-35-178

**Padhi Seshadev** and **Jaffar Ali Shahul-Hameed\*** (jahameed@fgcu.edu). *On the Multiplicity of Positive Solutions of Elliptic Equations in an Annulus*. Preliminary report.

In this talk, we will discuss the multiplicity of positive solutions of the equation

$$-\Delta u = \lambda g(|x|)f(u), \quad R_1 < |x| < R_2$$

$x \in R^n, N \geq 1$  subject to a linear mixed boundary condition at  $R_1$  and  $R_2$ .

We use Leggert-Williams multiple fixed point theorems to obtain our result. (Received September 18, 2014)