

1124-35-251

**Shirshendu Chaudhury, Debanjana Mitra and Mythily Ramaswamy\***  
([mythily@math.tifrbng.res.in](mailto:mythily@math.tifrbng.res.in)), TIFR CAM, Bangalore, 560065, India, and **Michael Renardy**. *Ingham type inequalities and applications to PDE*. Preliminary report.

After Ingham proved some trigonometric type inequalities in 1936, they have been applied in Series expansion, Function theory and also PDE's. Depending on the PDE and the spectrum of the operator, new extensions of these inequalities have been found. I show one such application to a coupled system of PDE of hyperbolic and parabolic types. (Received September 11, 2016)