

1047-32-457

**Roman J. Dwilewicz\*** (romand@mst.edu), Department of Mathematics, Missouri University of Science and Technology, Rolla, MO 65409. *Geometry of Tube-like Domains in  $\mathbb{C}^2$* . Preliminary report.

In the talk we will consider tube-like domains in  $\mathbb{C}^2$ , i.e., domains of the form

$$\mathbb{C}^2 \supset U : \rho = \rho(x_{i_1}, \dots, x_{i_k}) < 0, \quad \text{where } (z_1, z_2) = (x_1 + ix_2, x_3 + ix_4) \in \mathbb{C}^2$$

and where  $1 \leq i_1 < \dots < i_k \leq 4$  with  $k \leq 3$ . This means that  $\rho$  depends not on all variables  $x_1, x_2, x_3, x_4$ , at least one variable is missing. Some properties of such domains will be presented. This is a preliminary work with Josep M. Burgués (Universitat Autònoma de Barcelona). (Received February 03, 2009)