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**Mrinal K Roychowdhury\***, 1201 West University Drive, Edinburg, TX 78539. *Optimal Quantization.*

Quantization for probability distributions refers to the idea of estimating a given probability by a discrete probability supported by a set with no more than  $n$  points. It is a process of approximation with broad application in engineering and technology. Recently, for uniform distributions defined on the boundary of a regular hexagon, semicircle, and ellipse, we have determined the optimal sets of  $n$ -means (also know as  $n$  quantizers) and the  $n$ th quantization error. Quantization for uniform distribution on any curve is not known yet. I will talk about it. (Received January 07, 2019)